

香港電燈有限公司
The Hongkong Electric Co., Ltd.



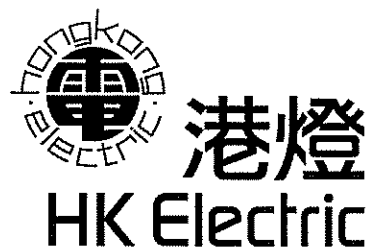
**Lamma Power Station
Units L2, L4 & L5 Flue Gas Desulphurization
Plants Retrofit**

Operational Phase

Quarterly Environmental Monitoring & Audit Report

April – June 2017

香港電燈有限公司
The Hongkong Electric Co., Ltd.



ENVIRONMENTAL IMPACT ASSESSMENT (EIA) ORDINANCE, CAP. 499

ENVIRONMENTAL PERMITS NO. EP-248/2006 & EP-287/2007

**LAMMA POWER STATION
UNITS L2, L4 & L5 FLUE GAS DESULPHURIZATION PLANTS RETROFIT**

**ENVIRONMENTAL MONITORING & AUDIT PROGRAMME
AT OPERATIONAL PHASE**


Report Title	Quarterly EM&A Report (April to June 2017)
Date	19 September 2017
Certified by	 (Mr. IP Tat-Yan, Environmental Team Leader)

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EXECUTIVE SUMMARY

This is the quarterly Environmental Monitoring and Audit (EM&A) report for the Projects “Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit” and “Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit” prepared by the Environmental Team (ET). This report presents the results of impact monitoring on air and water quality and environmental audit for the operation of the said projects in the period from April to June 2017.

Environmental monitoring for air quality and water quality were carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences. The results were checked against the established Action/Limit (AL) levels. The implementation status of the environmental mitigation measures, Event/Action Plan and environmental complaint handling procedures were also checked.

Plant Availability

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L2	01/04/2017 00:00 to 27/04/2017 13:25	Unit overhaul
L4	01/04/2017 13:17 to 02/04/2017 19:00	Defect rectification
L4	26/05/2017 19:29 to 29/05/2017 05:48	Defect rectification
L5	20/05/2017 00:01 to 21/05/2017 14:55	Defect rectification

Malfunction/Outage Records of Pollution Control Equipment

Major outages of the Pollution Control Equipment during the reporting period are listed below:

Equipment	Period	Cause	Actions Taken
L5 FGD	17/06/2017 23:10 to 24/06/2017 10:09	GGH washing and miscellaneous defect rectification	EPD was informed on 27/06/2017

For other minor outages, please refer to section 1.4 of the report.

Environmental Monitoring Works

Environmental monitoring works were performed during the operation of Units L2, L4 and L5 FGD Plants in the reporting period.

Air Quality

No exceedance of Action and Limit levels for air quality were recorded in the reporting period.

Water Quality

No exceedance of Action and Limit levels for water quality were recorded in the reporting period.

Environmental Licensing and Permitting

Description	Permit / Licence No.	Valid Period		Issued To	Date of Issuance
		From	To		
Environmental Permit for L4/5 FGD plants retrofit project	EP-248/2006	25/04/2006	-	HK Electric	25/04/2006
Environmental Permit for Unit L2 FGD plant retrofit project	EP-287/2007	02/10/2007	-	HK Electric	02/10/2007
Specified Process Licence issued under APCO	L-7-002(11)	01/01/2017	31/12/2018	HK Electric	22/12/2016
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	HK Electric	24/02/2017

Implementation Status of Environmental Mitigation Measures

Environmental mitigation measures were implemented in the reporting period.

Environmental Complaints

There was no environmental complaint against the operation of Lamma Power Station during the reporting period.

Future key issues

Key issues to be considered in the coming months include:

Air Impact

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

Water Impact

- To continuously carry out the water quality monitoring for FGD WWT plant.

Concluding Remarks

The environmental performance of the projects was generally satisfactory.

1. INTRODUCTION

The Environmental Team (hereinafter called the “ET”) was formed within The Hongkong Electric Co. Ltd (HK Electric) to undertake Environmental Monitoring and Audit for the “Operation of Lamma Power Station Units L4 & L5 Flue Gas Desulphurization Plant Retrofit Project” under the requirements of Clause 2.18 of Environmental Permit (EP) No. EP-248/2006 and “Operation of Lamma Power Station Unit L2 Flue Gas Desulphurization Plant Retrofit Project” under the requirements of Clause 2.10 of Environmental Permit (EP) No. EP-287/2007.

This report summarizes the environmental monitoring and audit work for the said Projects for the period from April to June 2017.

1.1 Background

The Projects involves retrofitting the three existing coal-fired generating Units L2, L4 and L5 of Lamma Power Station with Flue Gas Desulphurisation (FGD) plants for reducing sulphur dioxide emissions in support of Government policy to improve the air quality of the Pearl River Delta.

The Projects include the installation and operation of FGD plants with flue gas desulphurization efficiency of 90% for the three coal-fired Units L2, L4 & L5 to reduce the overall SO₂ emissions from Lamma Power Station. The process adopted for the FGD plants is “Wet Limestone-Gypsum”, a technology which has already been used in, and proved effective and reliable for the existing coal-fired units L6, L7 & L8. The flue gas from the boiler is directed to the FGD absorber inside which removal of SO₂ is take place by reaction with limestone slurry. After passing through the absorber, the treated flue gas is heated up by a gas-gas heater to over 80°C at boiler rated capacity and directed back to the existing chimney for discharge to the atmosphere. [Figure 1.1a](#), [Figure 1.1b](#), [Figure 1.2a](#), [Figure 1.2b](#) and [Figure 1.3](#) show the location and schematic of the FGD plants.

Wastewater filtrated from the reacted limestone slurry, i.e. gypsum slurry, is produced and it is directed to the existing FGD wastewater treatment plant (WWTP). The FGD WWTP is designed to treat the effluent from FGD plants by alkalization, precipitation and neutralization processes. The schematic diagram of the FGD WWTP is illustrated in [Figure 1.4](#).

The additional equipment for the FGD Plants retrofit projects for Units L2, L4 and L5 includes:

- Three sets of FGD absorbers and associated ductworks
- Three sets of booster fans
- Three sets of gas-gas heaters
- Two FGD Switchgear and Equipment Buildings
- Gypsum dewatering system comprising two sets of hydrocyclones and belt filters

1.2 Project Organisation

The management structure to oversee the Projects includes the following:

- Environmental Protection Department (The Authority);
- General Manager (Corporate Development) (The official contact person between HK Electric and EPD);
- Environmental Team Leader (ET Leader);
- Environmental Team (ET).

The organization chart for the Operation EM&A programme is shown in [Figure 1.5](#).

1.3 Plant Availability during the Reporting Period

Units L2, L4 and L5 were out of service during the following period:

Unit	Period	Remark
L2	01/04/2017 00:00 to 27/04/2017 13:25	Unit overhaul
L4	01/04/2017 13:17 to 02/04/2017 19:00	Defect rectification
L4	26/05/2017 19:29 to 29/05/2017 05:48	Defect rectification
L5	20/05/2017 00:01 to 21/05/2017 14:55	Defect rectification

1.4 Malfunction/Outage Records of Pollution Control Equipment

Equipment	Period	Cause	Actions Taken
L4 FGD	20/05/2017 04:07 to 20/05/2017 04:17	Routine damper exercise	EPD was informed on 25/05/2017
L4 FGD	03/06/2017 02:39 to 03/06/2017 02:49	Routine damper exercise	EPD was informed on 05/06/2017
L4 FGD	26/06/2017 02:22 to 26/06/2017 02:27	Routine damper exercise	EPD was informed on 27/06/2017
L5 FGD	08/04/2017 01:48 to 08/04/2017 01:59	Routine damper exercise	EPD was informed on 12/04/2017
L5 FGD	15/04/2017 01:49 to 15/04/2017 01:53	Routine damper exercise	EPD was informed on 18/04/2017

Equipment	Period	Cause	Actions Taken
L5 FGD	22/04/2017 03:16 to 22/04/2017 03:22	Routine damper exercise	EPD was informed on 24/04/2017
L5 FGD	29/04/2017 01:39 to 29/04/2017 01:42	Routine damper exercise	EPD was informed on 04/05/2017
L5 FGD	06/05/2017 03:15 to 06/05/2017 03:25	Routine damper exercise	EPD was informed on 10/05/2017
L5 FGD	03/06/2017 02:13 to 03/06/2017 02:16	Routine damper exercise	EPD was informed on 05/06/2017
L5 FGD	10/06/2017 03:15 to 10/06/2017 03:20	Routine damper exercise	EPD was informed on 16/06/2017
L5 FGD	17/06/2017 23:10 to 24/06/2017 10:09	GGH washing and miscellaneous defect rectification	EPD was informed on 27/06/2017

1.5 Summary of EM&A Requirements

Environmental Monitoring and Audit (EM&A) requirements have been discussed in the Environmental Impact Assessment (EIA) Report/ Project Profile for the Projects. The assessment results indicate that environmental monitoring works required for the EM&A programmes of these Projects are already in place or would be implemented under Lamma Power Station Extension Environmental Permit or environmental licenses for the operation of the existing Lamma Power Station. Such monitoring works are considered adequate for the Projects and no additional EM&A activities are required. Hence, environmental monitoring for air quality and water quality are carried out for the purpose of this EM&A program as well as for fulfilling the requirements stipulated in the relevant licences.

The EM&A monitoring work for air and water quality are described in [Section 2](#) and [Section 3](#) respectively.

The following environmental audits are summarized in [Section 4](#) of the report:

- Environmental monitoring results;
- The status of environmental licensing and permits for the Projects;
- The implementation status of environmental protection and pollution control / mitigation measures.

The future key issues for the Projects will be reported in [Section 5](#) of this report.

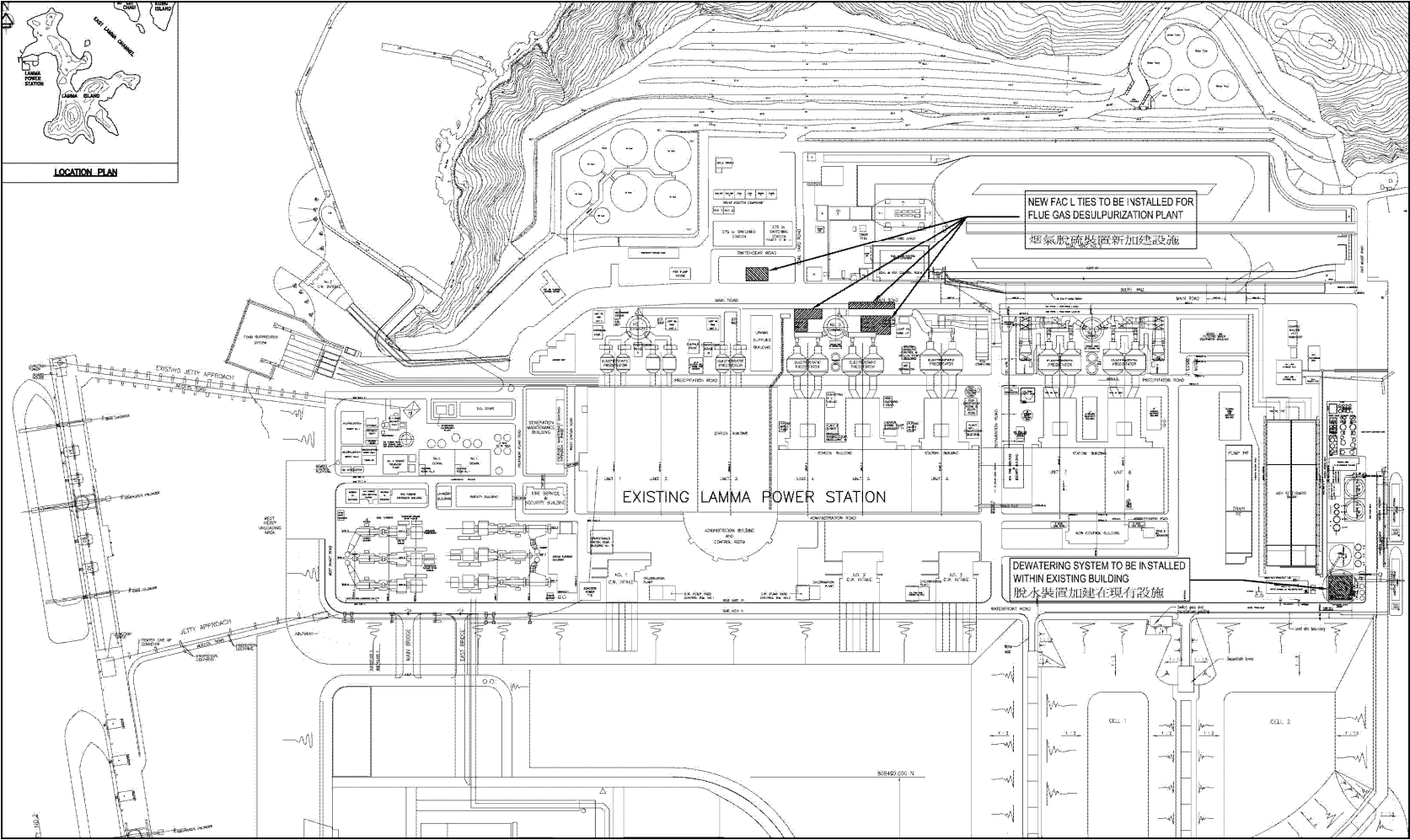


Figure 1.1a Location of New Facilities for L4 & L5 FGD Plants

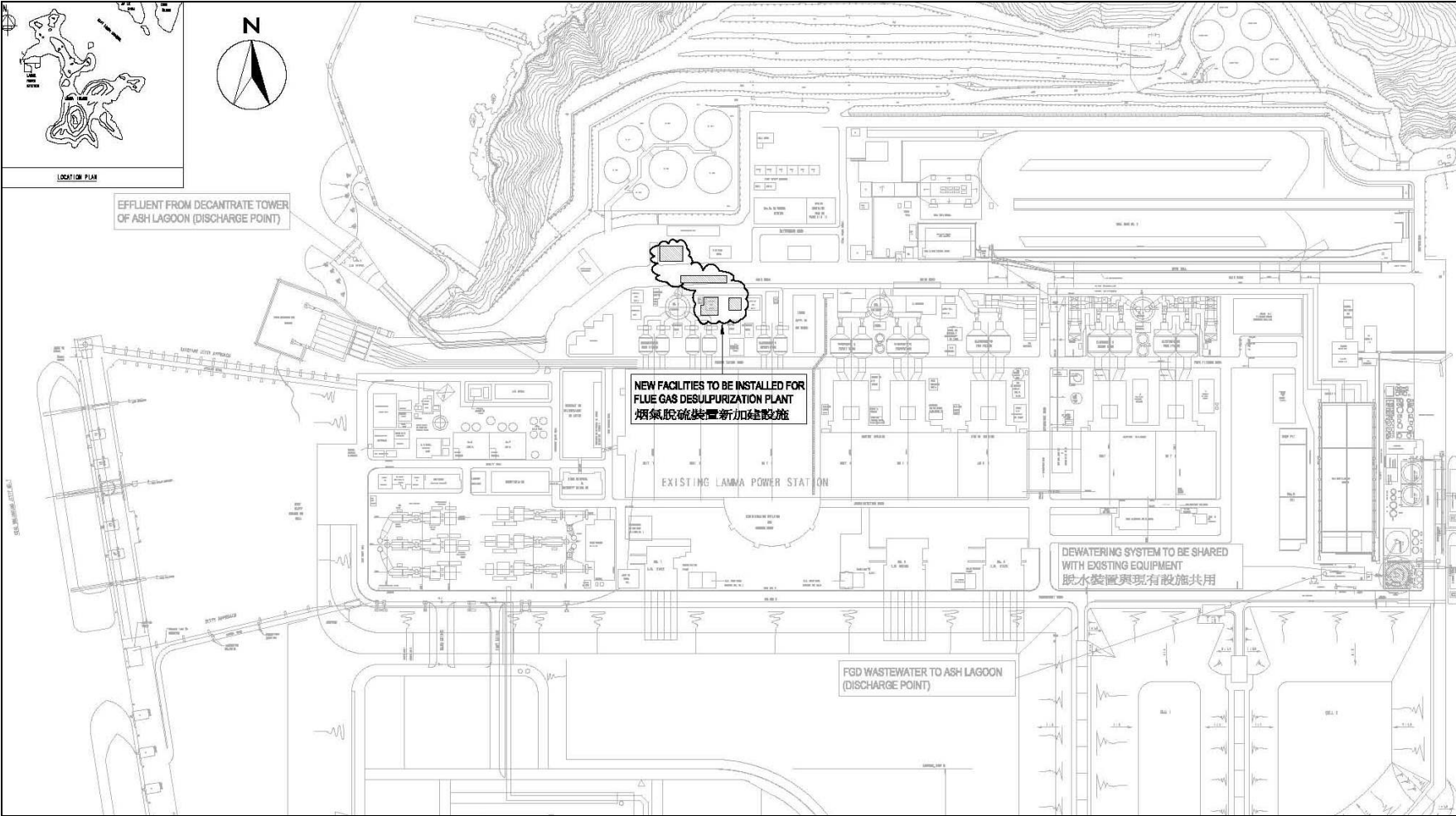


Figure 1.1b Location of New Facilities for L2 FGD Plant

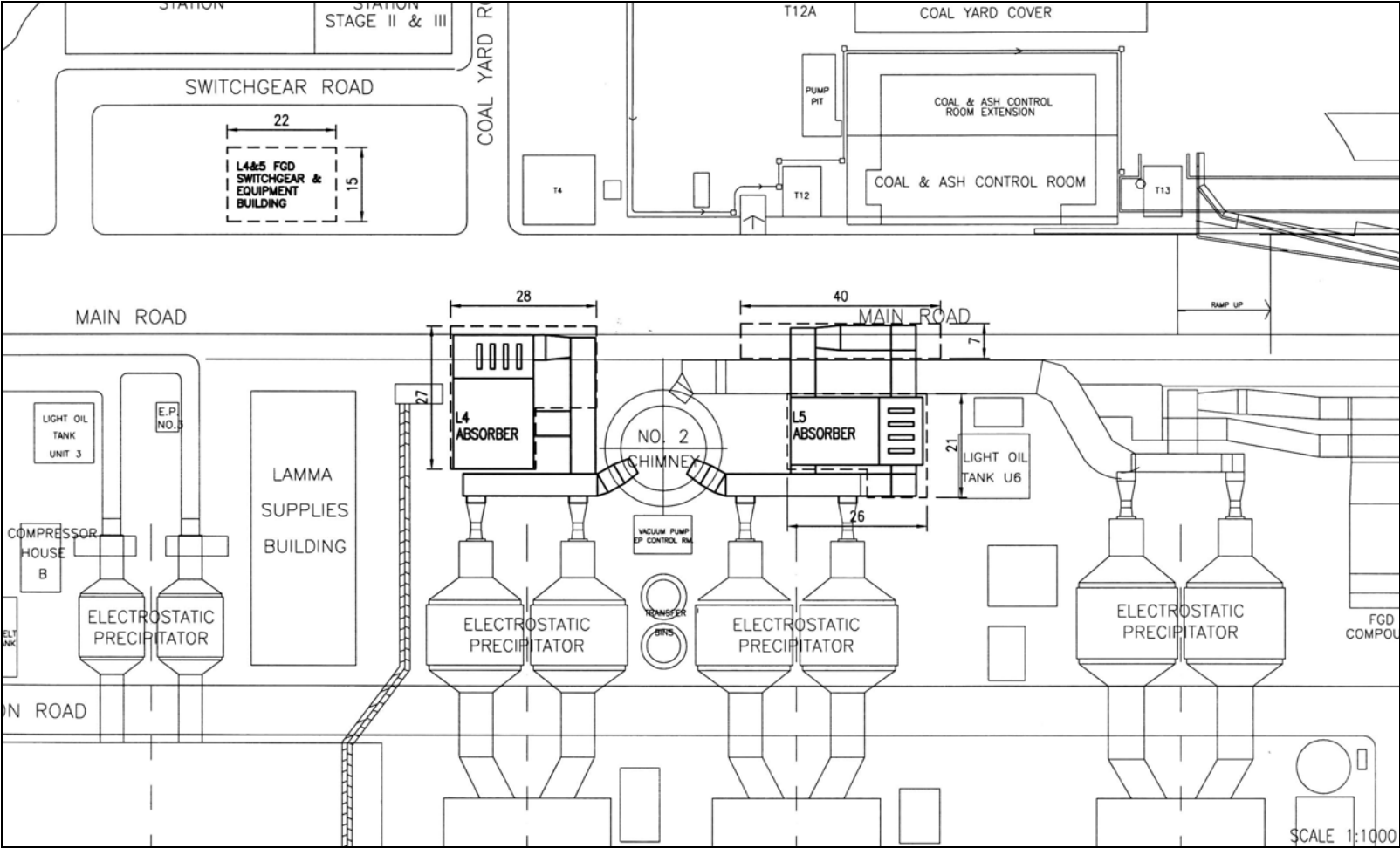


Figure 1.2a General Arrangement of L4 & L5 FGD Plants

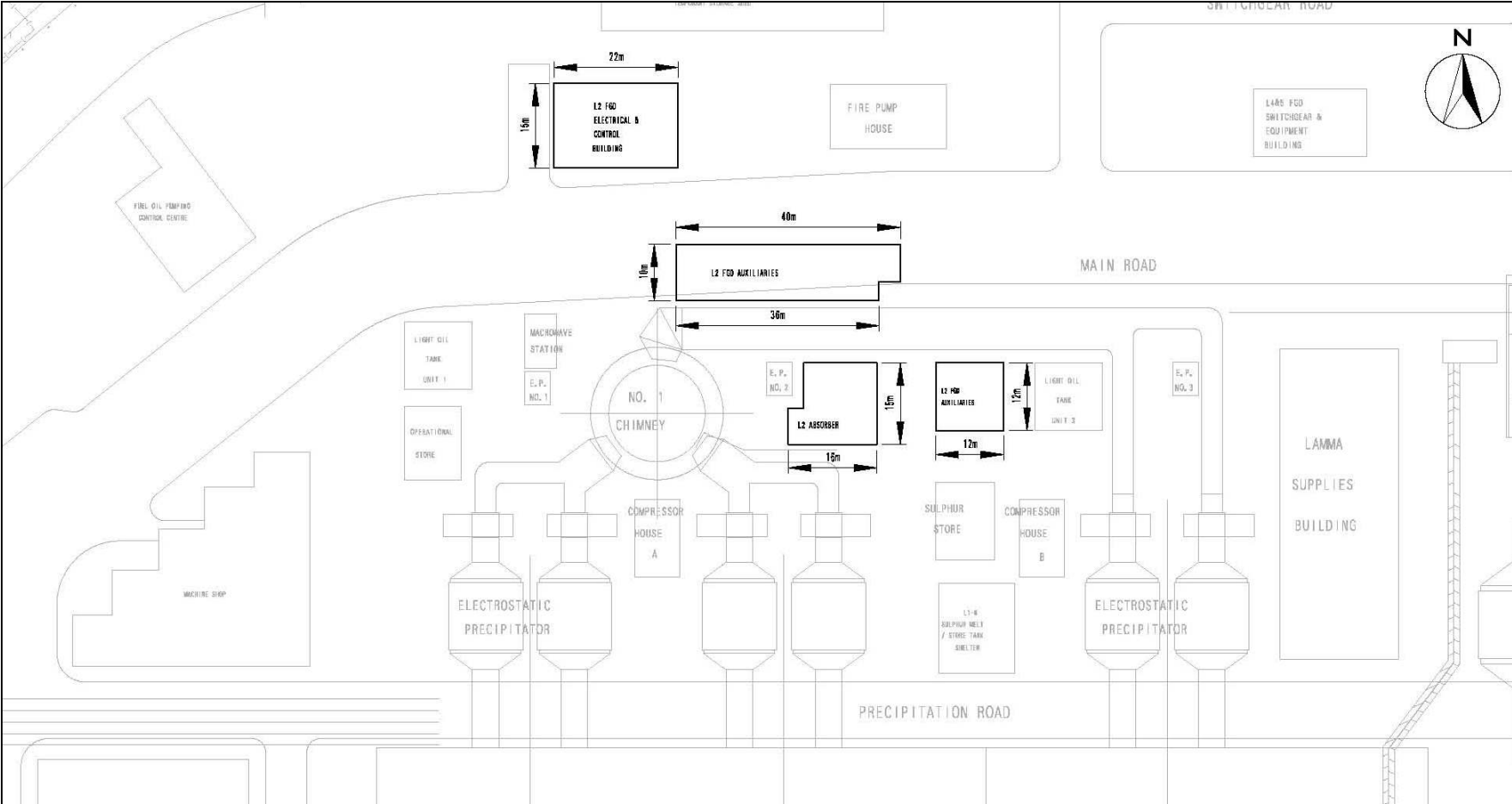


Figure 1.2b General Arrangement of L2 FGD Plant

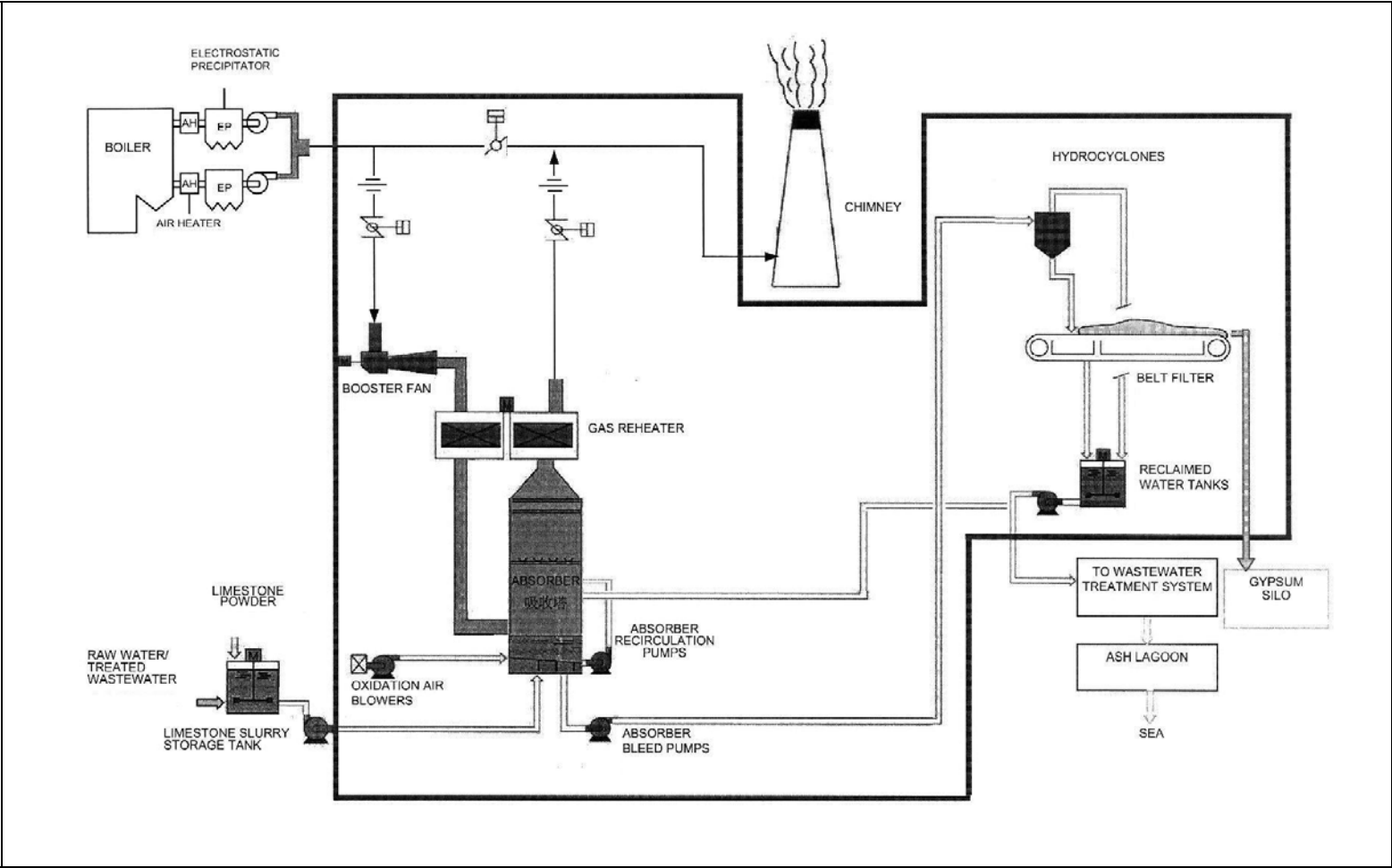


Figure 1.3 Schematic Diagram of the L2, L4 & L5 FGD Plant

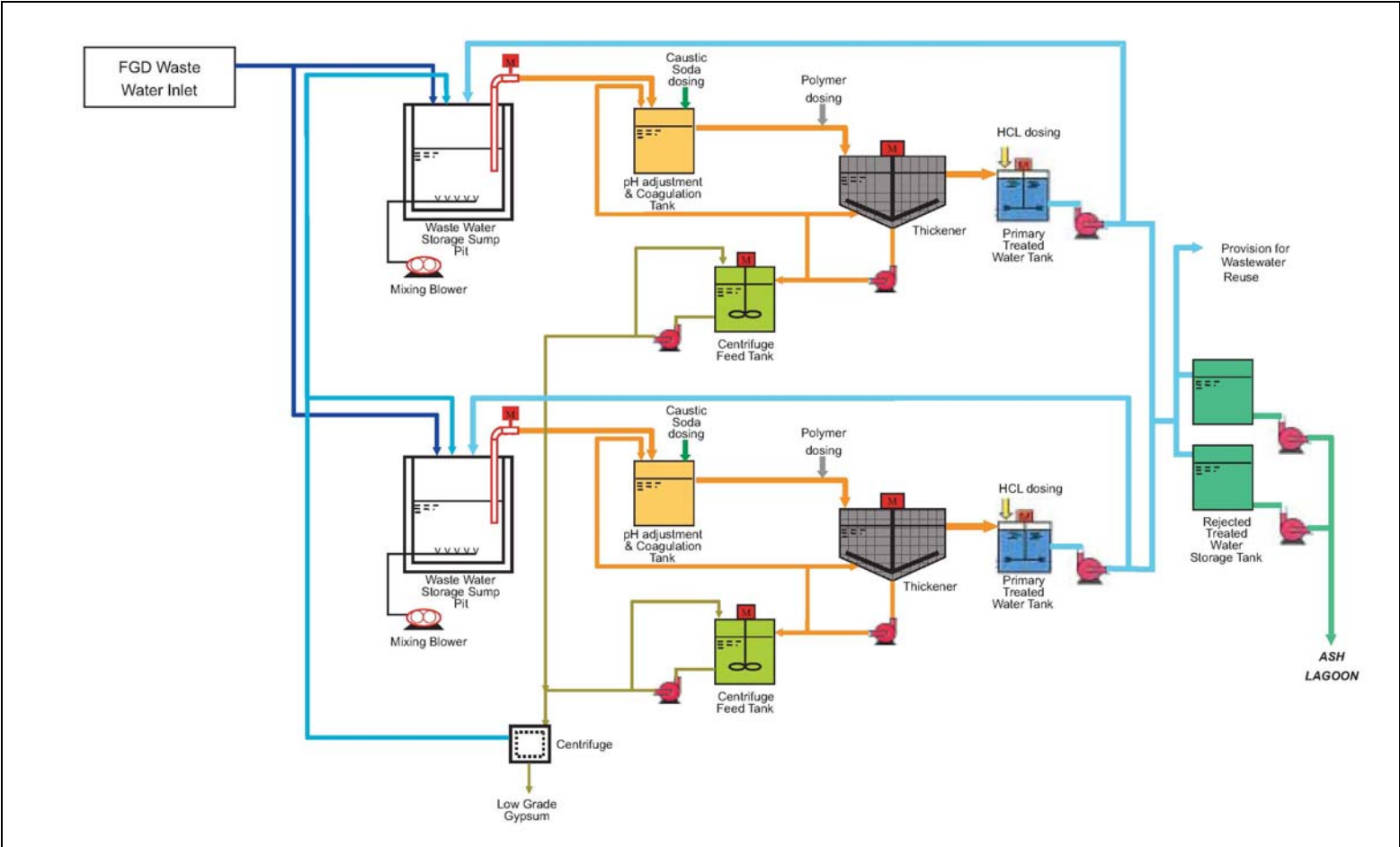


Figure 1.4 Simplified Schematic Diagram of FGD Wastewater Treatment Plant

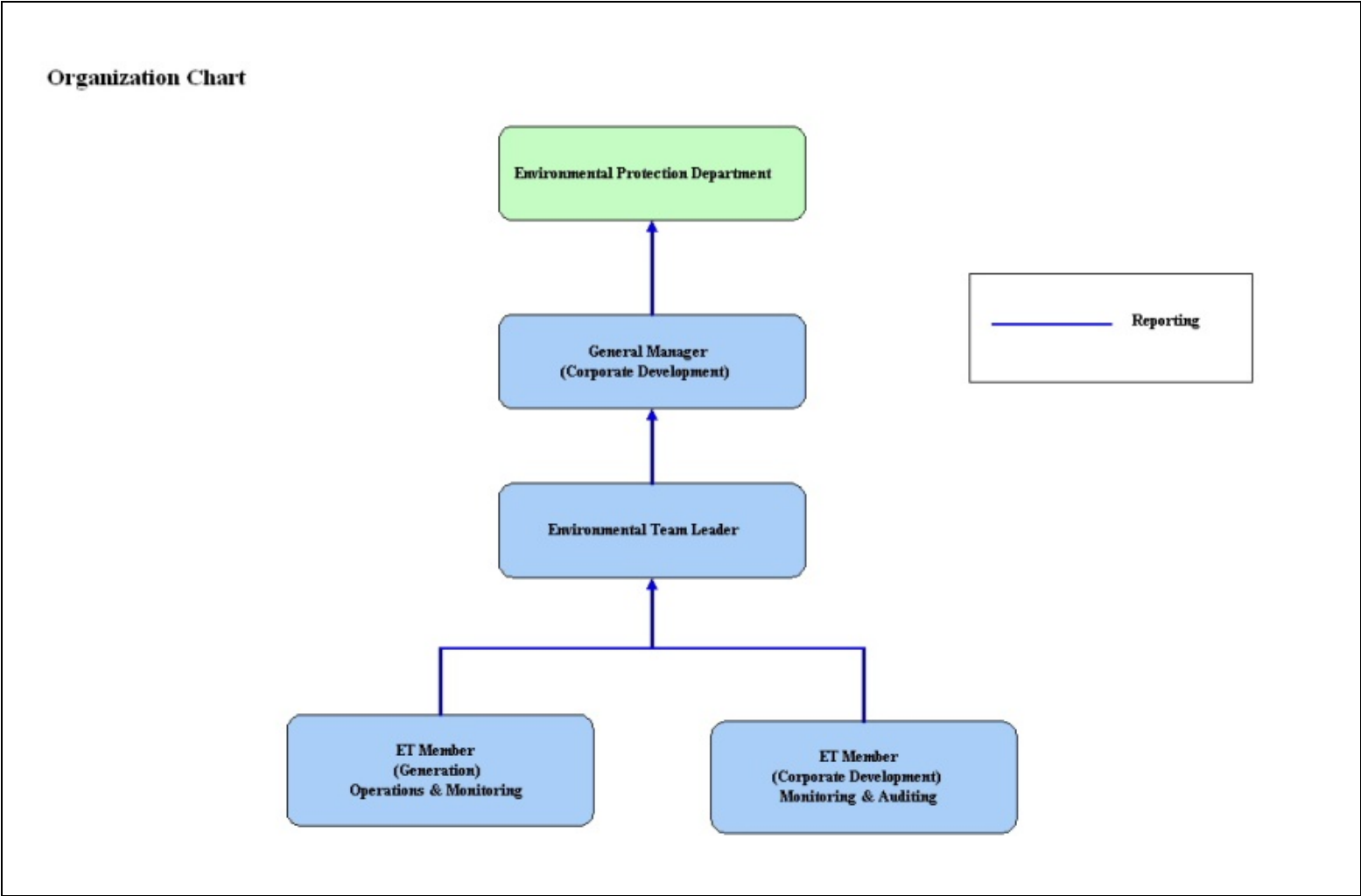


Figure 1.5 Organization Structure at Operational Phase of the Projects

2. AIR QUALITY

2.1 Monitoring Requirements

Since the Projects will bring a general air quality improvement, no additional EM&A activities are considered required, besides those already in place, such as those required by specified process licenses for the operation of the existing Lamma Power Station. In accordance with the requirements stipulated in the Specified Processes Licence issued under Air Pollution Control Ordinance, various operation parameters as stated in [Table 2.1](#) were monitored and checked against the Action/Limit Levels shown in [Appendix A](#).

Table 2.1 Air Quality Monitoring Parameters and Frequency

Sources of Emission	Parameter	Frequency
Steam boilers L2, L4 & L5	Particulate	Once / year
	Particulate (Opacity)	Continuous
	SO ₂	Continuous
	NO _x expressed as NO ₂ (For L4 and L5 only)	Continuous
Fugitive Dust (Coal, PFA, Limestone, gypsum)	Total Suspended Particulate	Once every six days
Chimney emissions	Ambient air	Continuous at existing ambient air monitoring stations
	SO ₂	
	NO ₂	

2.2 Summary of Results and Observations

Monitoring of various parameters as listed in [Table 2.1](#) above was conducted during the operation of Units L2, L4 and L5 in the reporting period. A summary of monitoring data is shown in [Appendix B](#).

No Action/Limit Level exceedance was recorded in the reporting period.

3. WATER QUALITY

3.1 Monitoring Requirements

According to the EIA Report/ Project Profile for the Projects, the current monitoring programme for the Lamma Power Station can cover the Projects and no additional EM&A measures are required besides those already in place. Hence, the EM&A work on water quality should strictly follow the relevant monitoring requirements stipulated in the discharge licence for Ash Lagoon issued under the Water Pollution Control Ordinance (WPCO).

Water quality monitoring was carried out for FGD Waste Water Treatment Plant (WWTP) in the reporting period. The parameters stated in [Table 3.1](#) were monitored and checked against the Action/Limit Levels as given in [Appendix A](#).

Table 3.1 Water Quality Monitoring Parameters and Frequencies

Item	Parameters	Frequencies
1	pH	Daily
2	Suspended Solids	Daily
3	Iron	Monthly
4	Barium	Monthly
5	Mercury	Monthly
6	Cadmium	Monthly
7	Cyanide	Monthly
8	Total Phosphorus	Monthly
9	Total Nitrogen	Monthly

3.2 Summary of Results and Observations

Monitoring of various parameters as listed in [Table 3.1](#) above was carried out during the discharge of the WWTP in the reporting period. A summary of the data is shown in [Appendix C](#).

The data recorded for the monitoring parameters were all below their corresponding Action/Limit Levels. No Action/Limit level exceedance was recorded in the reporting period. The effluent quality was generally satisfactory.

4. ENVIRONMENTAL AUDIT

4.1 Review of Environmental Monitoring Procedures

The environmental monitoring procedures were regularly reviewed by the Environmental Team. No modification to the existing monitoring procedures was recommended.

4.2 Assessment of Environmental Monitoring Results

Monitoring results for Air Quality and Water Quality

The environmental monitoring results for air quality and water quality are presented in [Sections 2](#) and [3](#) respectively are summarized in [Table 4.1](#).

Table 4.1 Summary of Action/Limit Level Exceedances on Monitoring Parameters

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
Air					
1	Annual analysis of dust particulate emission rates at chimney stacks.	01/04/17 30/06/17	N.A.	0	L4, L5 PM stack sampling tests were conducted in the reporting period.
2	Continuous monitoring of opacity, NO _x , SO ₂ and CO ₂ in the flue gas at the chimney stacks	01/04/17 30/06/17	0	0	
3	TSP monitoring at Lamma Power Station Boundary (ie East Gate and Reservoir).	01/04/17 30/06/17	0	0	
4	Ambient SO ₂ & NO _x monitoring at the Peak, Queen Mary Hospital, Victoria Road, Chung Hom Kok, Ap Lei Chau and	01/04/17 30/06/17	0	0	

Item	Parameter Monitored	Monitoring Period	No. of Exceedances In		Event/Action Plan Implementation Status and Results
			Action Level	Limit Level	
	Cheung Chau.				
Water					
1	pH in WWTP Effluent	01/04/17 30/06/17	0	0	
2	Suspended Solids in WWTP Effluent	01/04/17 30/06/17	0	0	
3	Iron in WWTP Effluent	01/04/17 30/06/17	0	0	
4	Barium in WWTP Effluent	01/04/17 30/06/17	0	0	
5	Mercury in WWTP Effluent	01/04/17 30/06/17	0	0	
6	Cadmium in WWTP Effluent	01/04/17 30/06/17	0	0	
7	Cyanide in WWTP Effluent	01/04/17 30/06/17	0	0	
8	Total Phosphorus in WWTP Effluent	01/04/17 30/06/17	0	0	
9	Total Nitrogen in WWTP Effluent	01/04/17 30/06/17	0	0	

Waste Management Records

The quantity of FGD gypsum and sludge collected for reuse by contractor in the reporting period are shown in [Table 4.2](#).

Table 4.2 Amount of Gypsum and Sludge Collected for Reuse by Contractor

Period	Amount of Gypsum Collected	Amount of Sludge Collected
April 2017	4631.6 MT	170.6 MT
May 2017	2494.9 MT	0 MT
June 2017	2642.5 MT	158.3 MT

4.3 Status of Environmental Licensing and Permitting

All permits/licenses obtained as of June 2017 are summarised in [Table 4.3](#).

Table 4.3 Summary of Environmental Licensing and Permit Status

Description	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit for Units L4/5 FGD Plants Retrofit	EP-248/2006	25/04/2006	-	Valid
Environmental Permit for Unit L2 FGD Plant Retrofit	EP-287/2007	02/10/2007	-	Valid
Specified Process Licence issued under APCO	L-7-002(11)	01/01/2017	31/12/2018	Valid
WPCO discharge licence for Ash Lagoon	WT00027218-2017	24/02/2017	31/12/2021	Valid

4.4 Implementation Status of Environmental Mitigation Measures

Mitigation measures detailed in the EIA Report and EP are required to be implemented. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in [Appendix D](#).

4.5 Implementation Status of Event/Action Plan

A list of specific actions in the event of exceedances of the various threshold levels for specific emission and discharge sources is given in [Appendix A](#).

As no Action/Limit level exceedance was recorded, no action has been devised.

4.6 Implementation Status of Environmental Complaint Handling Procedures

During the reporting period, there was no environmental complaint against the operation of Lamma Power Station.

Table 4.4 Environmental Complaint(s) Received

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

Table 4.5 Outstanding Environmental Complaint(s) Carried Over

Case Reference / Date, Time Received / Date, Time Concerned	Descriptions / Actions Taken	Conclusion / Status
Nil	N/A	N/A

5. FUTURE KEY ISSUES

5.1 Outage Plan for the coming 3 months

No major outage plan for the coming three months.

5.2 Key issues for the coming 3 months

Key issues to be considered in the coming 3 months include:

Air Impact

- To continuously carry out the air quality monitoring for Units L2, L4 and L5.

Water Impact

- To continuously carry out the water quality monitoring for FGD Waste Water Treatment Plant.

6. CONCLUSION

Environmental monitoring was performed as required in the reporting period from April to June 2017. All monitoring results were checked and reviewed.

No Action/Limit level exceedance on air quality parameters were recorded in the reporting period.

No Action/Limit level exceedance on water quality parameters were recorded in the reporting period.

Environmental mitigation measures recommended in the EIA Report and EP were implemented in the reporting period.

There was no environmental complaint against the operation of Lamma Power Station during the reporting period.

No prosecution was received for the Projects in the reporting period.

The environmental performance of the Projects was generally satisfactory.

Appendix A Event/Action Plans in Response to Exceedance of AL Levels

A.1 Air

Source of Emissions	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
Steam boilers L2, L4 and L5	Particulate Particulate (Opacity) SO2 NOx expressed as NO2 (For L4 and L5 only)	once/year continuous continuous continuous	50 mg/Nm3 40% (bihourly) 200 mg/Nm3 (1h) 615 mg/Nm3 (1h)	- 35 190 585	50 40 200 615	ET Leader informs Generation Division at action level. Maintenance initiated. Temporary load shift until pollution control equipment repaired and reinstated. Report to EPD.
Fugitive dust (Coal, PFA, limestone, gypsum)	TSP	Once every six days.	260 (µg/m3) (24 hours)	-	260	Investigation of sources and additional dust suppression to be employed at Limit level. Frequency of monitoring to be increased as necessary.
Chimney emissions	Ambient air SO2 NO2	Continuous at existing ambient air monitoring stations	800 (µg/m3) (1h) 300 (µg/m3) (1h)	- -	800 300	ET to review data on post-hoc basis and check for possible power station contribution.

A.2 Water

Source of Discharges	Parameters to be Monitored	Frequency	Concentration Not to Be Exceeded	Action	Limit	Proposed Action
FGD Wastewater Treatment Plant	pH	Daily	6-9	-	6-9	If pH exceeds limit level, consideration to be given to adjust chemical dosing. ET Leader inform Generation Division and investigation be initiated to identify and remedy cause.
	Suspended Solids	Daily	30 mg/L	25	30	
	Iron	Monthly	4 mg/L	3.6	4	For all other parameters except pH, Generation Division to be informed, frequency of monitoring to be increased, and investigations to be initiated to identify cause and remedy if concentration exceeds action level. If problem persists to exceed the limit level, ET Leader verbally informs EPD and ensures remedial actions implemented.
	Barium	Monthly	1.5 mg/L	1.3	1.5	
	Mercury	Monthly	0.005 mg/L	0.0045	0.005	
	Cadmium	Monthly	0.005 mg/L	0.0045	0.005	
	Cyanide	Monthly	0.1 mg/L	0.09	0.1	
	Total Phosphorus	Monthly	8 mg/L	7.2	8	
	Total Nitrogen	Monthly	400 mg/L	360	400	

B.2 Unit L2, L4 and L5 Stack Monitoring at Lamma Power Station

B.2.1 Monthly Summary of Stack NOx and SO2 for Unit L5

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/4/2017	45	394	20
2/4/2017	36	365	19
3/4/2017	39	390	22
4/4/2017	47	432	20
5/4/2017	41	374	26
6/4/2017	38	350	25
7/4/2017	39	416	31
8/4/2017	25	433	20
9/4/2017	30	299	20
10/4/2017	36	352	21
11/4/2017	28	340	19
12/4/2017	42	348	17
13/4/2017	45	464	19
14/4/2017	35	365	13
15/4/2017	28	417	19
16/4/2017	26	337	15
17/4/2017	28	328	19
18/4/2017	26	367	20
19/4/2017	18	392	21
20/4/2017	15	353	18
21/4/2017	21	369	20
22/4/2017	27	407	9
23/4/2017	53	468	14
24/4/2017	74	458	18
25/4/2017	61	364	20
26/4/2017	61	373	21
27/4/2017	65	381	16
28/4/2017	64	348	13
29/4/2017	50	321	5
30/4/2017	50	389	20

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/5/2017	53	335	21
2/5/2017	34	389	19
3/5/2017	31	443	19
4/5/2017	34	425	17
5/5/2017	28	425	22
6/5/2017	24	409	22
7/5/2017	30	424	18
8/5/2017	26	442	22
9/5/2017	27	384	25
10/5/2017	22	365	24
11/5/2017	21	364	20
12/5/2017	26	330	18
13/5/2017	19	289	15
14/5/2017	16	334	18
15/5/2017	27	367	18
16/5/2017	32	308	17
17/5/2017	40	457	16
18/5/2017	31	430	15
19/5/2017	21	343	14
20/5/2017	*	*	*
21/5/2017	*	*	*
22/5/2017	23	369	13
23/5/2017	29	427	16
24/5/2017	19	239	8
25/5/2017	21	405	18
26/5/2017	28	362	16
27/5/2017	32	352	16
28/5/2017	30	290	19
29/5/2017	32	322	15
30/5/2017	34	388	15
31/5/2017	30	248	15

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2017	23	329	15
2/6/2017	20	316	16
3/6/2017	29	337	15
4/6/2017	45	406	16
5/6/2017	42	402	17
6/6/2017	36	403	15
7/6/2017	25	361	12
8/6/2017	26	389	10
9/6/2017	30	360	9
10/6/2017	27	350	10
11/6/2017	46	344	9
12/6/2017	16	333	7
13/6/2017	30	332	9
14/6/2017	33	338	8
15/6/2017	43	364	15
16/6/2017	28	282	7
17/6/2017	26	352	3
18/6/2017	*	*	*
19/6/2017	FGD Plant Outage	321	4
20/6/2017	FGD Plant Outage	302	4
21/6/2017	FGD Plant Outage	248	3
22/6/2017	FGD Plant Outage	354	4
23/6/2017	FGD Plant Outage	300	4
24/6/2017	18	285	24
25/6/2017	36	368	15
26/6/2017	47	306	14
27/6/2017	24	381	17
28/6/2017	33	313	21
29/6/2017	34	383	20
30/6/2017	36	340	16

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L5 was not on load

B.2.2 Monthly Summary of Stack NOx and SO2 for Unit L4

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/4/2017	19	457	10
2/4/2017	*	*	*
3/4/2017	44	425	17
4/4/2017	35	442	13
5/4/2017	43	349	19
6/4/2017	48	259	22
7/4/2017	48	212	18
8/4/2017	65	363	16
9/4/2017	10	363	11
10/4/2017	22	330	13
11/4/2017	20	375	14
12/4/2017	18	387	11
13/4/2017	20	260	13
14/4/2017	*	*	*
15/4/2017	36	340	9
16/4/2017	26	358	11
17/4/2017	29	365	14
18/4/2017	32	391	12
19/4/2017	56	339	17
20/4/2017	30	302	20
21/4/2017	33	379	18
22/4/2017	10	430	8
23/4/2017	*	*	*
24/4/2017	14	365	11
25/4/2017	22	317	16
26/4/2017	44	221	20
27/4/2017	62	356	15
28/4/2017	18	333	15
29/4/2017	76	427	21
30/4/2017	39	331	21

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) #	NOx concentration (mg/Nm3) #	Opacity (%)
1/5/2017	24	441	23
2/5/2017	21	384	23
3/5/2017	18	288	22
4/5/2017	33	347	23
5/5/2017	37	232	22
6/5/2017	61	402	24
7/5/2017	22	452	21
8/5/2017	14	405	24
9/5/2017	18	369	24
10/5/2017	30	244	24
11/5/2017	26	254	24
12/5/2017	50	249	21
13/5/2017	37	224	20
14/5/2017	28	239	22
15/5/2017	28	350	21
16/5/2017	38	348	23
17/5/2017	38	363	24
18/5/2017	29	361	20
19/5/2017	51	323	22
20/5/2017	57	315	21
21/5/2017	32	316	16
22/5/2017	25	315	27
23/5/2017	22	328	24
24/5/2017	35	349	21
25/5/2017	27	359	18
26/5/2017	32	345	24
27/5/2017	*	*	*
28/5/2017	*	*	*
29/5/2017	24	304	21
30/5/2017	20	379	20
31/5/2017	22	287	22

Date	Daily Maximum		
	SO2 concentration (mg/Nm3) [#]	NOx concentration (mg/Nm3) [#]	Opacity (%)
1/6/2017	22	397	20
2/6/2017	30	327	22
3/6/2017	47	362	22
4/6/2017	30	336	21
5/6/2017	36	376	23
6/6/2017	20	397	22
7/6/2017	21	431	24
8/6/2017	49	447	24
9/6/2017	45	395	22
10/6/2017	19	371	21
11/6/2017	6	355	19
12/6/2017	8	378	17
13/6/2017	27	345	16
14/6/2017	43	393	19
15/6/2017	20	351	20
16/6/2017	17	306	20
17/6/2017	11	379	12
18/6/2017	28	356	10
19/6/2017	31	336	16
20/6/2017	30	405	17
21/6/2017	18	404	17
22/6/2017	30	265	16
23/6/2017	25	327	17
24/6/2017	28	302	16
25/6/2017	23	312	18
26/6/2017	48	346	18
27/6/2017	21	413	19
28/6/2017	32	370	19
29/6/2017	35	388	19
30/6/2017	22	377	20

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L4 was not on load.

B.2.3 Monthly Summary of Stack SO2 for Unit L2

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) #	Opacity (%)
1/4/2017	*	*
2/4/2017	*	*
3/4/2017	*	*
4/4/2017	*	*
5/4/2017	*	*
6/4/2017	*	*
7/4/2017	*	*
8/4/2017	*	*
9/4/2017	*	*
10/4/2017	*	*
11/4/2017	*	*
12/4/2017	*	*
13/4/2017	*	*
14/4/2017	*	*
15/4/2017	*	*
16/4/2017	*	*
17/4/2017	*	*
18/4/2017	*	*
19/4/2017	*	*
20/4/2017	*	*
21/4/2017	*	*
22/4/2017	*	*
23/4/2017	*	*
24/4/2017	*	*
25/4/2017	*	*
26/4/2017	*	*
27/4/2017	70	14
28/4/2017	*	*
29/4/2017	*	*
30/4/2017	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/5/2017	*	*
2/5/2017	*	*
3/5/2017	*	*
4/5/2017	*	*
5/5/2017	*	*
6/5/2017	*	*
7/5/2017	*	*
8/5/2017	*	*
9/5/2017	*	*
10/5/2017	*	*
11/5/2017	*	*
12/5/2017	*	*
13/5/2017	*	*
14/5/2017	*	*
15/5/2017	*	*
16/5/2017	*	*
17/5/2017	*	*
18/5/2017	*	*
19/5/2017	*	*
20/5/2017	*	*
21/5/2017	*	*
22/5/2017	*	*
23/5/2017	*	*
24/5/2017	*	*
25/5/2017	*	*
26/5/2017	*	*
27/5/2017	*	*
28/5/2017	*	*
29/5/2017	*	*
30/5/2017	*	*
31/5/2017	*	*

Date	Daily Maximum	
	SO2 concentration (mg/Nm3) [#]	Opacity (%)
1/6/2017	*	*
2/6/2017	*	*
3/6/2017	*	*
4/6/2017	*	*
5/6/2017	59	13
6/6/2017	53	13
7/6/2017	60	15
8/6/2017	54	16
9/6/2017	56	13
10/6/2017	*	*
11/6/2017	*	*
12/6/2017	60	13
13/6/2017	*	*
14/6/2017	*	*
15/6/2017	56	15
16/6/2017	61	13
17/6/2017	*	*
18/6/2017	*	*
19/6/2017	*	*
20/6/2017	*	*
21/6/2017	*	*
22/6/2017	61	12
23/6/2017	59	13
24/6/2017	*	*
25/6/2017	*	*
26/6/2017	59	14
27/6/2017	60	14
28/6/2017	59	13
29/6/2017	68	14
30/6/2017	54	15

Note: # - Hourly average value. Expressed as at 0°C, 101.325kPa, dry and corrected to 12% CO₂ condition.

* - Unit L2 was not on load.

B.2.4 Summary of Annual Stack Particulate Sampling

Unit	Date	Results (mg/Nm ³)
L4	04/05/2017	11
L5	05/05/2017	13

Monitoring Equipment: APEX model XC-522-V (Manual stack sampling system)

B.3 Ambient SO₂ and NO₂ monitoring Data at Southern District and Cheung Chau

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	7	5	3	2	4	3	2	2
2	5	3	2	2	2	3	3	5	4	4	3	3	4	4	4	4	3	4	6	5	4	3	3	3	4
3	3	3	3	4	4	4	4	4	4	3	2	3	3	3	3	3	3	2	2	3	4	4	4	5	3
4	5	3	2	2	3	2	2	3	3	3	2	2	2	2	1	2	2	2	2	1	0	1	1	2	2
5	1	1	1	1	0	1	1	1	1	1	1	1	2	1	1	1	1	0	0	1	1	1	0	0	1
6	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3	6	1	0	1	1	0	0	1
7	0	0	0	1	0	1	2	0	2	0	1	1	3	2	3	4	3	2	2	1	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	0	1	2	4	3	3	2	2	2	3	4	3	2	1	1	1
9	1	1	1	1	1	0	1	1	1	1	2	3	2	2	3	4	3	2	2	2	1	1	1	1	2
10	0	1	0	0	0	1	1	1	1	2	1	1	1	0	0	1	1	1	0	0	0	0	1	1	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	1	1	0	0	0	2	1
12	1	1	2	1	0	0	1	1	4	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
13	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	2	1	2	3	1
14	3	3	4	3	4	3	2	4	4	4	8	22	19	14	7	6	17	5	4	3	1	1	3	0	6
15	0	0	0	11	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16	1	0	1	0	0	0	0	0	0	0	1	2	5	4	2	2	0	0	0	0	0	0	0	0	1
17	0	0	1	1	3	2	1	0	2	1	1	2	4	5	6	4	6	8	7	5	3	2	0	1	3
18	0	0	0	0	2	3	5	9	9	14	9	11	8	7	8	7	9	9	11	6	3	2	8	5	6
19	3	3	2	2	2	1	3	1	6	20	16	15	2	18	21	11	24	5	9	8	10	5	1	1	8
20	0	2	2	1	1	2	2	1	2	3	0	M	0	0	0	0	0	0	0	0	0	0	0	2	1
21	3	4	1	3	2	1	1	0	1	0	0	0	0	0	1	3	0	1	3	3	1	1	3	2	1
22	3	0	0	0	0	0	0	1	1	1	2	2	0	0	0	0	0	0	2	1	1	0	0	0	1
23	0	0	0	0	0	0	0	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	0	1
24	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	2	2	1	2	0	0	1	1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
27	2	2	6	2	1	0	0	0	6	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1
28	1	0	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	2	6	2	2	3	4	4	2
29	3	4	4	5	8	7	7	8	6	10	15	12	5	5	6	12	11	11	11	15	15	7	13	7	9
30	5	6	3	4	2	3	8	5	5	4	6	5	4	7	2	1	1	2	3	4	5	5	4	4	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
2	1	2	1	5	8	13	16	0	-	24	0	-	9	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	12	9	5	2	1	2	7	17	26	28	22	17	21	12	16	16	21	37	37	28	8	13	21	38	17
2	28	18	9	10	10	9	12	21	18	16	8	9	7	3	6	5	4	6	9	6	6	5	4	3	10
3	3	5	5	5	5	4	10	20	30	15	8	12	14	9	5	3	4	5	2	1	3	2	2	5	7
4	5	2	0	0	1	0	0	1	1	2	1	0	0	2	1	0	0	3	1	1	0	0	0	0	1
5	0	M	0	0	0	0	0	6	7	8	6	2	7	5	1	4	2	0	0	0	0	0	0	0	2
6	0	0	0	0	0	0	0	18	15	5	9	6	3	7	4	15	48	33	8	0	14	15	0	0	8
7	0	0	0	0	0	0	2	1	2	8	14	8	5	8	19	23	25	19	10	8	0	0	0	0	6
8	0	0	0	0	0	0	0	2	10	11	8	5	5	9	9	10	12	14	18	12	12	7	5	6	
9	1	0	0	0	0	0	1	5	3	4	5	7	3	4	5	5	11	7	5	7	2	6	1	0	3
10	0	0	0	0	0	0	0	1	3	6	4	3	3	2	1	2	8	2	2	0	1	1	16	11	3
11	1	0	0	0	0	3	26	24	14	13	12	9	4	6	5	6	15	24	12	3	8	13	24	32	11
12	34	31	32	28	26	24	21	23	27	20	16	21	27	24	32	37	35	48	49	35	41	35	29	44	31
13	25	33	20	13	11	10	14	19	27	30	29	24	21	26	38	41	52	46	39	34	45	22	15	16	27
14	13	10	4	2	3	2	2	8	13	24	30	48	47	36	45	32	59	61	63	30	3	10	27	1	24
15	0	0	0	39	9	0	0	7	1	14	20	16	5	6	10	1	0	5	6	1	1	1	1	2	6
16	8	0	0	0	0	0	0	0	1	15	23	21	14	7	5	8	8	7	10	6	0	0	0	0	6
17	0	0	0	2	2	1	3	12	7	2	0	4	8	8	10	7	18	29	47	34	14	6	0	0	9
18	0	0	0	0	0	1	6	5	16	21	8	17	19	7	10	9	7	13	29	17	5	10	70	24	12
19	4	M	0	0	0	0	0	0	23	45	30	11	0	18	31	16	18	4	15	16	27	19	10	3	13
20	1	3	2	0	3	4	4	4	7	8	3	M	10	11	11	25	15	22	17	13	12	9	11	15	9
21	18	16	8	14	13	9	12	16	19	17	17	14	9	11	22	35	16	31	49	47	36	39	61	66	25
22	56	24	18	13	12	15	22	34	49	64	67	69	66	62	78	79	69	76	82	67	61	47	27	30	49
23	25	18	15	12	11	12	12	17	15	24	26	18	21	18	14	17	26	25	28	19	18	14	18	13	18
24	9	6	7	5	5	6	8	13	17	19	20	18	20	22	25	23	20	26	18	13	12	9	12	7	14
25	8	6	5	5	4	5	3	5	8	9	14	10	5	8	13	12	17	14	10	11	12	11	5	3	8
26	3	6	3	1	0	1	3	9	20	25	38	23	19	21	28	29	32	31	17	15	15	28	5	3	16
27	10	13	14	15	11	21	21	32	51	36	41	39	43	44	52	51	41	58	60	59	42	35	31	30	35
28	22	15	15	15	10	12	24	45	45	39	38	30	30	29	29	26	29	27	22	21	10	6	8	11	23
29	14	13	17	41	50	23	25	34	61	61	53	42	29	32	36	41	54	41	37	46	31	18	22	30	35
30	13	9	5	3	3	4	9	8	11	20	24	21	15	28	20	27	35	45	22	23	15	11	9	6	16

MONTHLY STATISTICS:

GEOM	ARITH ----- PERCENTILES -----							----- RANGE -----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
11	10	15	10	37	48	61	67	0	-	82	1	-	49	3	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	1	3	0
2	4	3	2	2	3	4	4	5	5	5	5	4	5	5	4	3	5	4	5	4	3	3	3	2	4
3	2	2	2	3	3	3	4	4	3	3	3	2	3	3	4	2	2	2	2	4	3	3	3	6	3
4	5	4	3	3	3	3	4	5	5	5	4	4	4	3	3	5	5	5	2	2	2	4	5	1	4
5	1	0	0	0	0	0	1	1	1	1	1	1	1	1	2	3	3	1	1	1	2	1	1	3	1
6	1	1	0	1	1	1	1	1	1	2	2	4	4	5	5	2	2	2	2	2	2	1	1	0	2
7	1	1	3	2	1	1	1	1	2	1	3	3	2	3	5	5	10	6	7	4	4	7	8	4	4
8	4	3	2	2	2	1	1	2	2	6	6	7	11	7	7	4	6	4	4	3	4	5	3	3	4
9	3	2	2	2	2	2	3	4	6	6	6	6	8	7	11	9	8	2	5	7	6	6	8	4	5
10	4	8	5	4	9	8	6	9	11	8	8	6	5	4	6	11	8	12	8	12	7	8	7	5	7
11	3	1	1	0	0	8	5	4	4	4	11	7	13	14	9	12	16	13	12	15	15	11	6	4	8
12	3	2	1	2	2	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1
13	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	1	2	2	2	2	3	1
14	4	3	3	3	3	1	2	3	3	3	4	2	3	2	1	1	2	5	2	0	1	2	3	3	2
15	1	2	2	2	3	3	3	1	1	1	1	2	2	2	4	1	0	0	0	1	1	5	1	4	2
16	3	6	4	4	2	1	2	2	1	1	0	1	4	1	2	1	0	0	0	0	0	0	1	3	2
17	3	3	1	2	3	0	0	0	4	9	17	10	4	9	9	11	3	8	2	1	2	3	4	9	5
18	6	5	5	4	10	8	8	16	17	14	15	17	9	21	22	20	19	17	9	6	5	3	3	4	11
19	7	8	5	4	7	12	9	7	10	8	13	7	10	13	12	4	7	8	5	4	8	7	9	5	8
20	6	10	7	11	10	7	4	4	5	3	2	4	3	2	3	1	1	2	3	4	5	5	4	3	5
21	6	4	5	6	7	7	8	8	7	11	5	5	4	5	11	7	2	5	5	4	3	2	3	3	6
22	3	1	1	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	1	2
23	1	1	1	1	1	1	1	2	2	2	3	2	3	2	1	2	3	3	3	2	2	2	2	2	2
24	2	2	2	2	2	2	2	2	2	3	3	2	3	2	2	2	4	4	3	3	3	2	2	3	2
25	2	2	2	2	2	2	2	2	3	2	2	2	2	1	1	1	1	1	1	2	2	3	2	2	2
26	1	1	1	1	1	1	1	1	2	3	3	2	2	2	3	4	5	6	4	3	2	1	1	2	2
27	1	1	1	1	1	9	4	35	11	1	1	M	0	0	0	0	0	0	0	0	0	0	0	1	3
28	1	0	0	1	1	1	1	1	1	2	1	1	2	1	1	1	1	2	1	1	2	5	6	3	2
29	3	4	3	4	3	4	4	3	4	5	6	3	4	4	4	10	9	9	10	9	8	6	7	14	6
30	15	18	18	8	6	6	6	8	8	8	6	6	5	4	3	2	2	3	4	2	4	6	2	3	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
3	3	4	3	8	11	15	17	0	-	35	0	-	11	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	4	5	5	4	4	6	8	9	10	7	8	9	8	10	11	13	14	21	12	10	10	12	11	9
2	15	13	10	10	9	8	7	8	8	8	10	9	8	11	11	11	11	12	15	13	11	10	9	7	10
3	6	8	8	10	9	7	10	9	11	7	7	7	7	7	9	7	7	8	9	11	11	12	9	15	9
4	10	8	7	7	7	5	8	9	9	9	8	6	8	8	6	12	12	13	9	11	10	12	12	7	9
5	5	M	5	5	4	4	6	9	11	8	6	6	5	5	7	9	9	7	7	8	10	10	9	11	7
6	6	4	4	5	6	6	8	15	14	12	11	11	12	15	16	12	15	19	13	15	13	10	15	8	11
7	9	14	17	14	9	11	11	13	16	9	9	8	5	8	16	18	25	20	24	14	22	17	22	10	14
8	10	7	7	8	10	10	11	14	14	17	14	12	13	11	12	9	17	14	17	14	17	20	10	11	12
9	11	10	10	6	8	11	14	13	13	12	12	10	10	10	14	15	20	9	14	16	13	14	19	12	12
10	7	18	11	10	24	17	14	14	16	15	12	9	9	9	14	21	18	32	17	26	15	16	14	13	15
11	10	10	12	11	10	30	24	19	12	11	16	14	19	14	15	17	20	21	28	30	32	24	41	42	20
12	41	39	36	35	33	25	10	8	11	10	11	10	9	14	16	25	52	49	34	20	16	14	12	13	23
13	11	11	13	14	14	11	8	10	14	13	13	13	15	14	17	17	19	21	14	14	16	13	11	14	14
14	14	10	9	9	10	7	8	10	11	10	11	11	12	11	15	16	17	27	16	8	10	10	13	12	12
15	8	7	7	6	7	9	9	8	8	12	12	13	11	10	15	13	12	16	15	10	9	19	9	13	11
16	10	13	9	9	8	6	11	15	12	8	6	5	9	7	7	8	8	11	12	4	2	1	8	21	9
17	20	15	15	11	13	5	7	10	16	21	26	24	19	20	18	22	19	28	25	15	11	17	23	44	19
18	33	35	17	27	34	38	28	39	26	19	18	31	21	29	27	27	25	30	26	30	26	23	17	25	27
19	19	M	17	15	14	24	22	13	12	13	14	8	8	14	20	11	20	25	27	22	29	17	27	15	18
20	15	23	16	28	22	15	12	13	10	8	7	10	8	15	12	7	8	11	12	14	16	14	13	11	13
21	17	9	10	15	15	14	19	18	10	12	5	5	3	4	23	20	13	30	34	50	43	40	67	74	23
22	32	13	10	8	7	7	9	14	21	36	39	36	41	43	55	45	24	30	37	19	16	13	10	11	24
23	11	9	11	9	9	9	9	10	10	8	12	10	9	9	7	9	12	13	12	11	9	9	8	5	10
24	5	5	5	4	4	5	6	7	7	8	7	6	8	9	8	7	12	14	9	7	9	7	6	7	7
25	4	3	3	5	3	4	5	8	9	6	5	5	6	5	4	7	8	13	8	9	11	12	7	4	6
26	2	3	2	3	1	1	3	9	4	7	9	8	8	8	19	14	14	22	25	26	24	23	15	4	11
27	4	6	3	0	5	44	35	64	33	5	5	M	12	13	30	28	29	28	25	12	6	7	5	9	18
28	8	8	5	4	4	5	7	12	12	16	11	11	9	8	9	9	10	14	13	7	6	10	13	8	9
29	9	8	8	7	7	10	12	20	15	15	16	13	16	13	13	18	18	17	30	28	19	10	10	14	14
30	13	19	20	6	5	5	8	15	13	14	10	11	9	7	8	9	11	18	25	27	16	18	10	9	13

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
11	11	14	11	25	32	41	45	0	-	74	6	-	27	2	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1
6	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	3	3	2	2	2	2	2	1	2
7	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2
8	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	2	2	2	2	2	1	2	2	1	2
9	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	2	2	2
10	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2
11	1	1	1	1	1	1	1	2	2	1	2	2	2	2	2	2	2	1	1	2	2	2	2	3	2
12	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	2	1	2	2	2	2	2	1	2	2
13	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	2	3	3	2	2	2	2	2	2	2	1	1	2	1	2
15	1	1	1	1	1	1	1	1	1	1	3	2	2	1	2	1	2	1	1	1	1	0	1	2	1
16	1	1	1	1	1	2	1	1	1	2	2	2	4	3	4	4	3	3	2	2	2	2	2	2	2
17	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	1	1	2
18	1	2	1	2	2	2	2	2	2	2	2	3	2	3	3	3	3	3	3	3	2	1	2	2	2
19	1	1	1	1	1	1	1	1	1	3	4	4	3	3	5	3	3	2	2	2	1	1	1	1	2
20	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	1	2	0	1	1	1	1	2	2
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	2	2	1	1	2	1
26	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2
27	2	2	2	2	2	2	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
28	1	1	1	1	1	1	1	1	1	1	M	2	2	2	2	2	2	2	2	1	2	2	1	1	1
29	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
1	1	2	1	2	3	3	3	0	-	5	1	-	2	1	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: APRIL

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	0	0	0	0	0	2	7	7	6	6	14	5	8	8	14	11	19	7	3	3	5	5	5
2	4	3	1	0	0	0	0	2	4	6	4	4	4	5	4	4	4	3	4	3	2	2	1	1	3
3	0	0	0	0	0	0	1	4	6	5	4	3	3	3	3	4	3	3	3	3	3	2	2	3	2
4	2	1	0	0	0	0	0	0	1	2	4	2	2	1	2	1	2	2	2	1	1	0	0	0	1
5	0	M	0	0	0	0	2	4	3	2	2	1	1	0	1	1	1	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	2	12	17	13	8	5	2	5	4	6	15	24	12	7	6	12	8	10	7
7	5	4	4	6	4	5	2	7	16	12	8	11	5	4	10	16	16	20	21	13	11	8	8	6	9
8	4	4	2	3	4	3	6	5	5	13	15	10	8	7	5	4	4	5	9	7	5	3	1	0	6
9	0	0	0	0	0	0	0	0	1	2	2	3	4	4	7	8	11	8	9	9	7	6	5	2	4
10	0	0	0	0	2	3	3	5	6	9	8	7	5	3	3	5	7	3	4	5	3	1	3	4	4
11	1	0	0	0	0	0	4	10	7	7	7	5	7	4	3	3	2	2	6	5	6	6	7	6	4
12	7	7	5	4	3	2	2	4	3	8	6	5	2	2	2	5	13	14	10	8	5	6	4	4	5
13	3	3	2	0	0	0	0	1	1	3	2	2	10	7	12	14	13	9	10	6	7	4	3	3	5
14	3	1	1	0	0	0	1	1	3	10	18	32	30	12	11	16	17	22	15	12	12	13	11	12	11
15	10	10	11	9	7	8	10	13	13	14	42	21	12	5	3	3	4	5	9	4	7	21	12	11	11
16	10	7	1	0	0	5	5	3	4	11	10	9	11	6	10	12	6	16	15	12	8	7	7	7	8
17	8	4	18	8	11	9	5	6	9	5	2	5	4	4	7	11	12	10	8	5	4	3	0	0	7
18	0	0	0	1	3	2	6	8	9	10	3	9	6	7	9	9	10	11	15	20	18	15	10	12	8
19	7	M	0	0	0	0	2	1	2	9	15	6	3	2	14	8	10	4	8	7	6	10	5	4	5
20	6	7	5	4	6	6	9	12	9	11	10	9	7	8	8	7	7	10	6	4	2	1	3	5	7
21	5	6	4	5	8	8	10	12	13	8	9	7	2	2	6	19	8	8	9	12	14	14	12	10	9
22	9	5	2	1	0	0	0	1	5	10	10	11	8	9	10	10	11	11	10	10	8	6	5	5	7
23	3	2	1	0	0	0	0	1	2	4	3	4	3	4	5	3	3	4	4	3	3	2	3	2	2
24	1	0	0	0	0	0	2	3	5	6	7	6	6	8	9	12	8	10	8	7	5	3	2	3	5
25	2	1	1	1	0	1	2	4	6	5	4	4	4	4	6	6	5	5	12	16	20	8	3	5	
26	3	4	3	5	4	5	5	7	9	12	15	13	9	9	9	11	12	12	15	18	13	10	10	10	9
27	6	5	8	5	6	7	12	13	12	15	13	9	6	5	8	8	8	8	11	9	6	6	5	6	8
28	3	2	3	2	0	0	1	3	5	7	M	23	13	11	13	12	9	9	9	6	6	7	7	1	7
29	1	0	0	0	0	0	0	4	14	13	30	18	9	8	13	17	30	25	18	11	7	6	7	5	10
30	5	3	1	0	0	0	2	1	2	5	5	7	3	4	6	3	2	4	4	3	2	1	1	0	3

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	5	6	5	12	15	20	23	0	-	42	1	-	11	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

MONTH: APRIL

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	0	0	0	0	0	1	1	2	1	8	9	12	13	13	4	2	2	3	2	3
2	3	2	1	1	2	2	3	4	5	4	4	4	3	3	4	4	3	3	5	4	3	2	2	3	3
3	2	2	2	3	3	4	4	3	3	3	2	3	2	2	2	2	2	2	2	2	3	3	3	4	3
4	4	3	2	2	2	2	2	2	3	3	2	1	1	1	1	1	2	2	1	1	1	0	1	2	2
5	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	0	0	1
6	0	0	0	0	1	3	6	11	13	18	13	3	21	5	3	2	23	29	6	1	2	1	2	1	7
7	0	8	7	18	13	13	4	3	15	3	13	8	5	4	7	7	8	17	17	3	1	0	0	3	7
8	3	6	4	5	4	3	4	14	32	31	11	9	9	7	5	3	4	3	4	4	2	2	2	1	7
9	0	0	1	0	0	0	0	1	1	1	3	5	5	4	4	5	4	3	3	4	3	3	2	2	2
10	1	1	1	1	2	4	3	3	4	6	4	4	2	2	2	2	4	1	2	2	3	3	1	4	3
11	2	1	0	0	0	1	1	1	2	3	3	4	8	4	6	5	6	9	7	4	3	6	8	12	4
12	7	5	3	3	2	2	0	1	3	5	1	0	1	0	1	1	1	3	1	0	0	2	1	1	2
13	0	0	1	0	0	1	1	1	1	2	1	0	2	14	7	10	4	2	1	1	1	1	1	3	2
14	3	3	6	7	7	5	3	7	13	24	20	42	16	15	8	30	27	18	5	3	8	21	20	16	14
15	14	17	16	23	14	11	15	35	36	32	45	18	2	2	0	0	0	0	0	0	4	3	2	12	
16	11	24	13	7	8	30	23	25	18	28	32	10	12	5	15	15	2	10	8	2	3	2	2	13	
17	0	0	9	8	7	16	9	3	37	8	3	6	8	8	13	4	6	10	2	4	2	2	2	2	7
18	1	1	2	1	3	2	5	7	12	12	6	22	8	23	21	21	18	13	12	13	10	9	7	5	10
19	5	5	3	3	6	6	6	4	4	7	15	6	8	8	8	2	1	5	4	4	4	9	4	3	5
20	4	6	6	6	7	5	6	5	7	6	3	6	3	1	2	M	0	0	0	0	0	0	0	0	3
21	0	2	1	3	4	1	1	0	1	1	0	1	0	0	0	M	0	1	2	3	5	6	3	0	2
22	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
26	3	5	2	5	7	14	7	13	24	53	24	11	2	3	1	1	1	2	3	7	6	3	3	4	9
27	8	8	11	9	10	11	11	15	15	3	2	2	1	1	2	1	0	0	0	0	0	0	0	1	5
28	0	0	0	0	0	0	0	1	1	1	4	17	4	2	1	1	M	2	5	3	2	3	3	4	2
29	2	3	5	4	4	4	4	5	16	16	37	18	9	9	10	20	17	17	14	13	13	10	12	7	11
30	14	10	6	4	3	2	7	6	5	6	6	10	11	7	5	3	1	2	2	3	4	4	4	3	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
4	2	5	2	13	18	28	32	0	-	53	0	-	14	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	15	15	12	12	11	12	19	27	30	31	34	29	35	22	29	25	29	43	51	41	53	38	45	40	29
2	29	25	16	13	13	12	14	19	17	17	14	14	12	10	12	11	11	11	16	14	12	13	10	10	14
3	9	12	12	11	12	11	13	15	26	30	20	21	19	19	13	15	12	15	14	15	14	11	11	13	15
4	14	13	10	9	9	7	7	10	12	11	9	8	7	8	11	11	10	13	16	13	11	9	11	9	10
5	7	7	4	4	4	5	13	17	23	20	16	10	12	13	10	9	9	9	9	7	6	5	5	4	10
6	4	3	2	5	15	16	33	56	57	48	30	24	61	29	24	28	76	76	48	32	44	46	44	24	34
7	19	38	34	62	42	41	24	35	54	28	23	16	16	17	21	29	40	58	67	28	33	21	25	31	33
8	46	48	39	35	36	23	33	38	43	40	32	26	21	18	15	14	14	19	24	21	12	11	8	6	26
9	7	M	5	4	4	4	6	11	12	10	13	13	13	11	13	14	14	16	17	20	14	13	12	9	11
10	6	7	7	5	10	17	13	17	20	20	15	13	11	10	12	14	19	15	15	19	23	29	19	20	15
11	8	4	4	5	2	10	22	29	26	29	16	16	21	12	23	18	23	29	33	16	17	43	47	46	21
12	45	40	39	37	33	37	32	35	41	36	27	24	26	30	46	61	58	74	67	50	46	57	60	46	44
13	44	43	42	28	41	45	39	35	38	48	32	26	29	56	56	59	53	49	51	55	52	41	31	21	42
14	26	25	23	27	24	20	18	37	45	52	52	71	58	33	27	53	56	55	47	66	71	114	99	79	49
15	83	79	80	80	54	48	55	92	89	86	84	41	14	12	7	9	8	20	43	30	24	54	52	30	49
16	56	67	59	48	43	91	84	72	47	65	54	30	19	18	27	19	12	30	43	38	53	45	42	39	46
17	31	11	47	44	28	50	28	19	49	15	10	12	19	18	21	11	20	28	20	32	14	16	12	12	24
18	7	8	12	9	18	14	29	28	29	32	16	34	25	32	33	32	27	22	36	54	49	42	25	20	26
19	15	11	5	3	8	8	11	9	10	14	21	7	6	10	11	8	8	15	17	16	22	26	13	13	12
20	15	21	14	15	19	17	20	23	25	22	17	17	17	17	17	M	22	16	6	6	3	4	6	12	15
21	15	18	11	18	20	14	16	20	23	18	15	12	10	10	25	M	26	62	75	77	93	90	85	73	36
22	64	26	22	15	12	13	24	44	53	71	60	67	74	81	70	67	78	79	75	87	75	51	32	38	53
23	32	M	18	19	16	14	12	18	29	31	33	35	22	24	27	30	24	31	30	32	26	16	15	11	24
24	11	9	12	8	7	9	14	28	38	40	41	35	35	40	43	41	32	39	32	29	21	16	16	11	25
25	12	10	8	8	7	9	25	18	15	18	20	14	10	13	16	16	16	13	10	15	10	39	17	12	15
26	40	45	34	44	46	69	46	62	62	77	59	45	21	37	25	21	23	34	70	90	61	34	56	64	49
27	68	60	58	62	62	69	64	65	67	25	21	44	44	50	60	57	52	60	60	60	49	43	26	27	52
28	24	20	20	14	12	18	31	41	56	47	43	46	30	29	34	32	M	24	29	25	26	21	19	18	29
29	50	42	33	39	25	23	51	45	49	55	76	39	27	27	25	38	43	40	42	36	29	21	24	11	37
30	17	13	7	5	5	4	8	8	17	25	13	12	16	18	12	9	7	12	14	15	16	12	12	8	12

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
22	22	29	22	59	70	81	89	2	-	114	10	-	53	2	99	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	0	0	0	0	1	0	0	0	1	0	0	1	0	1	2	1	3	10	2	3	3	3	3	2
2	3	4	3	2	2	3	4	4	5	4	4	3	3	3	4	5	3	4	3	4	3	3	3	6	4
3	4	4	4	5	5	5	5	5	4	4	4	3	3	4	4	4	4	3	2	4	5	7	5	7	4
4	7	4	5	4	4	4	4	4	5	5	4	3	3	3	3	3	4	5	4	3	2	3	5	4	4
5	2	1	1	1	2	2	1	1	2	2	1	2	2	2	2	2	3	2	2	2	3	3	2	2	2
6	3	2	2	2	3	3	2	4	4	2	3	3	3	4	4	3	40	42	3	2	2	4	2	2	6
7	2	3	2	6	5	4	6	6	5	3	15	9	5	9	10	20	34	19	13	20	9	8	12	10	10
8	8	8	6	4	4	4	3	3	3	6	8	8	26	16	18	7	6	7	6	5	5	8	7	4	8
9	7	7	6	3	2	2	4	5	5	6	10	15	15	12	31	21	24	14	14	23	14	12	14	12	12
10	11	32	16	9	16	16	28	20	47	37	15	10	10	7	13	10	12	8	6	6	4	13	6	4	15
11	13	11	9	7	11	22	19	17	23	21	21	18	23	17	18	11	11	20	25	20	16	13	11	11	16
12	6	5	4	5	3	5	4	3	4	2	1	1	1	1	1	1	1	2	1	2	1	1	0	6	3
13	3	2	1	2	2	2	2	1	2	3	2	2	7	3	2	16	6	4	3	3	4	4	3	5	4
14	7	6	6	5	6	6	4	5	6	8	14	44	8	6	5	4	8	9	5	4	3	2	3	7	8
15	6	7	5	14	17	13	10	8	13	28	22	5	5	5	6	5	4	5	4	4	5	5	6	2	9
16	4	4	6	3	4	2	2	2	2	1	4	8	19	11	4	3	2	6	3	2	2	1	1	5	4
17	9	6	16	5	17	27	18	6	20	11	7	7	21	19	21	12	12	20	9	15	8	15	17	10	14
18	8	6	10	9	15	19	21	22	27	17	11	26	10	29	33	33	28	32	20	20	17	21	31	25	20
19	19	19	12	10	14	18	14	17	15	12	16	13	24	14	12	5	6	9	9	11	13	24	20	13	14
20	15	31	28	32	28	29	29	18	16	16	15	15	9	15	13	8	5	7	7	8	8	8	9	14	16
21	26	31	15	23	31	25	31	19	22	11	9	7	7	4	8	10	4	10	14	13	11	6	7	5	15
22	5	2	2	2	2	3	3	3	5	6	6	4	2	2	2	2	2	1	2	2	2	1	2	2	3
23	2	2	2	2	2	2	2	2	2	2	2	3	3	4	2	3	3	4	4	3	3	3	2	3	3
24	4	4	3	3	4	3	4	4	3	4	4	3	3	3	3	3	4	5	6	5	5	3	2	4	4
25	3	2	2	3	3	3	3	3	3	4	3	2	3	2	3	2	3	2	3	2	3	6	4	3	3
26	0	1	1	0	1	1	5	2	2	1	2	2	1	0	1	3	0	0	0	72	85	7	0	4	8
27	9	36	57	13	32	33	21	70	37	7	2	3	3	4	3	3	3	3	5	2	2	1	2	2	15
28	1	2	2	2	1	2	2	2	3	2	2	2	3	3	2	2	2	3	3	2	3	4	6	8	3
29	7	6	5	5	5	6	23	16	8	8	12	10	6	8	11	23	17	15	25	25	19	14	14	18	13
30	36	35	35	20	15	9	12	10	8	9	8	8	3	7	6	4	4	4	8	7	6	8	10	6	12

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
5	5	8	5	20	27	34	39	0	-	85	2	-	20	3	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	14	8	3	3	3	5	14	19	23	24	13	8	11	5	7	3	6	10	21	7	25	19	21	29	13
2	21	22	12	7	6	6	8	9	10	9	8	5	7	4	5	5	5	4	7	6	3	5	3	6	8
3	2	6	7	6	6	6	10	17	12	9	7	5	4	4	6	5	6	3	2	2	2	4	2	5	6
4	5	3	3	2	2	1	2	3	3	7	3	0	0	0	1	1	6	4	2	2	0	0	0	1	2
5	0	0	1	0	0	1	5	14	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6	0	0	0	0	0	0	8	37	35	7	6	3	0	0	0	0	41	30	8	2	5	32	8	4	9
7	1	7	6	9	9	7	17	26	6	0	5	2	0	3	3	16	23	16	12	12	7	6	8	15	9
8	15	19	12	2	0	0	7	4	11	8	4	4	32	6	7	0	0	0	2	2	0	5	2	0	6
9	1	1	0	0	0	0	0	1	0	0	1	3	2	1	12	10	17	12	9	18	7	4	6	2	4
10	1	13	4	0	5	8	15	5	16	17	5	1	1	0	4	1	1	2	0	1	0	3	1	0	4
11	1	M	1	0	2	14	7	2	10	7	9	3	12	3	5	0	0	5	16	8	5	7	32	37	8
12	33	29	27	25	26	24	20	23	26	11	5	6	11	8	16	39	48	49	48	39	24	15	14	47	26
13	30	28	29	18	15	15	17	16	19	21	18	12	17	10	23	58	25	14	12	13	13	13	11	14	19
14	14	15	11	8	8	9	8	10	16	18	22	49	18	10	8	5	23	16	24	34	20	6	6	23	16
15	27	4	8	27	35	17	2	13	27	57	37	0	0	0	0	0	0	0	1	1	3	5	9	7	12
16	12	1	0	0	0	0	0	0	3	1	14	8	5	2	3	0	0	4	2	3	2	14	0	2	3
17	9	3	26	1	17	27	21	18	19	7	3	8	21	23	22	18	24	28	18	13	7	19	22	10	16
18	7	1	10	8	21	35	36	32	27	18	5	23	24	38	38	42	36	43	25	34	27	29	55	36	27
19	17	17	25	7	5	27	19	19	12	9	19	15	21	14	13	6	10	15	12	13	16	26	22	9	15
20	10	26	25	30	22	26	20	12	5	5	9	11	4	12	6	4	5	4	2	2	2	1	1	13	11
21	24	20	12	23	30	12	14	15	16	5	2	1	1	0	2	14	10	33	39	64	58	41	56	67	23
22	58	24	15	10	7	11	19	28	41	65	69	72	80	73	73	79	74	71	71	73	55	25	24	30	48
23	26	20	14	8	5	8	13	11	11	11	16	16	15	14	12	18	19	22	21	12	11	11	8	7	14
24	7	4	4	2	1	2	5	10	10	10	9	6	6	8	12	16	6	10	10	6	4	2	2	3	6
25	1	M	0	1	0	0	1	0	1	2	1	1	0	0	2	5	4	0	0	3	12	13	14	2	3
26	5	3	8	3	0	1	21	24	3	0	0	0	0	0	0	0	M	1	6	76	92	50	8	1	13
27	46	58	61	45	54	59	55	66	58	14	9	12	33	34	34	31	42	41	46	39	26	14	14	11	38
28	11	3	1	0	0	0	11	26	28	19	4	1	0	0	0	0	0	0	0	0	5	13	13	28	7
29	24	15	7	2	14	33	58	55	25	15	15	10	3	10	14	25	19	15	30	27	16	9	6	6	19
30	26	25	23	15	2	0	0	2	2	0	0	1	0	0	2	0	0	2	7	2	0	0	2	1	5

MONTHLY STATISTICS:

GEOM	ARITH ----- PERCENTILES -----							----- RANGE -----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL		
9	8	13	8	32	47	65	73	0	-	92	1	-	48	3	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	1	2	1	1	2	2	1	2	3	2	4	7	6	11	10	17	8	6	5	4
2	4	4	3	3	3	3	3	4	8	9	6	11	9	6	5	6	5	5	6	7	6	9	5	5	6
3	5	5	6	8	7	6	5	6	9	6	9	9	11	6	9	13	5	4	4	4	4	6	5	6	7
4	6	5	6	4	4	5	7	5	7	5	7	4	5	5	4	4	6	6	6	7	4	5	6	4	5
5	4	3	4	3	3	2	3	4	8	8	6	4	4	3	2	4	4	5	5	3	3	3	3	2	4
6	3	3	2	3	2	2	3	5	10	17	7	6	8	7	7	6	6	11	7	4	5	4	6	5	6
7	3	4	6	6	5	5	7	8	23	14	14	15	24	19	20	32	32	33	18	9	11	14	17	16	15
8	13	14	17	20	15	14	20	17	15	15	15	13	M	34	19	21	23	14	16	12	14	14	17	13	17
9	11	10	9	8	7	6	9	13	15	22	29	27	21	11	14	6	6	3	2	3	2	2	3	5	10
10	8	7	3	3	2	5	4	5	6	5	7	9	5	3	2	2	3	2	2	2	4	4	4	4	4
11	4	3	2	1	1	4	5	7	7	13	12	15	10	10	4	4	4	5	6	4	4	7	10	10	6
12	9	4	3	1	1	1	1	0	1	8	6	6	6	5	4	2	1	1	2	8	4	2	1	2	3
13	2	1	1	1	1	1	1	1	3	3	3	4	4	6	5	5	4	5	2	3	5	4	3	3	3
14	5	6	5	5	5	6	5	7	9	7	10	9	11	8	6	7	5	7	8	4	6	5	6	6	7
15	6	4	5	6	5	5	6	7	9	13	16	9	8	5	4	5	3	2	4	4	5	5	9	5	6
16	5	5	5	4	3	5	3	5	11	13	9	5	4	9	9	12	13	12	14	16	15	13	13	17	9
17	19	19	15	11	10	9	6	4	4	3	1	1	11	7	12	8	8	7	2	2	5	3	2	2	7
18	2	2	2	2	2	1	3	4	6	6	5	9	12	19	21	12	14	11	11	4	6	6	4	10	7
19	7	5	3	2	1	1	1	1	2	7	10	10	5	10	6	4	6	6	5	1	2	2	2	2	4
20	2	3	5	5	3	3	2	3	3	3	2	2	2	0	0	0	2	9	6	6	10	6	7	9	4
21	5	4	3	2	2	2	2	3	3	3	2	3	3	3	4	4	1	0	0	1	3	6	6	6	3
22	4	2	1	1	1	1	2	2	1	2	2	2	0	0	1	1	2	2	1	2	4	3	3	6	2
23	3	3	5	5	2	2	4	2	3	5	4	3	4	3	3	3	3	2	4	4	2	2	2	3	3
24	2	2	2	3	2	2	3	2	6	4	5	3	3	3	4	3	2	4	4	3	4	3	3	3	3
25	2	2	3	3	3	1	2	2	2	3	3	4	2	2	1	1	1	3	3	3	4	4	4	3	2
26	4	3	2	4	4	4	3	4	5	7	11	12	6	3	4	9	13	11	2	3	8	4	6	5	6
27	6	6	3	6	12	22	16	10	9	7	10	M	M	3	2	1	1	1	2	2	1	1	1	1	6
28	1	1	1	1	1	1	1	1	2	4	7	9	5	2	4	3	5	3	6	5	7	7	6	6	4
29	4	6	5	5	5	4	7	18	25	19	14	13	9	13	15	26	24	10	7	5	4	5	5	4	11
30	4	3	3	4	10	9	10	14	16	14	10	11	18	12	15	11	9	8	15	10	9	8	11	6	10

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
5	5	6	5	13	16	21	25	0	-	34	2	-	17	2	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: APRIL

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	19	15	14	12	12	14	23	19	24	41	34	36	27	12	9	12	15	20	40	32	58	67	56	61	28
2	81	79	31	15	18	16	14	15	39	47	27	20	19	11	9	9	9	9	16	18	17	21	20	17	24
3	14	14	16	31	23	21	46	49	67	50	20	16	21	11	17	26	14	6	11	15	10	14	12	13	22
4	13	19	23	16	14	19	33	21	27	19	9	4	5	5	4	4	8	11	14	21	9	13	16	11	14
5	13	M	44	44	27	44	79	77	92	72	25	9	5	2	1	2	5	7	8	8	5	8	8	7	26
6	9	8	8	17	15	24	59	60	74	77	17	11	12	9	10	17	31	34	28	16	51	85	91	24	33
7	24	33	43	53	28	39	62	45	43	18	21	17	23	28	32	45	50	54	36	40	37	50	68	83	41
8	68	52	53	59	50	51	57	53	40	20	19	15	M	29	22	32	30	25	45	46	53	51	60	58	43
9	37	51	55	47	33	23	31	29	20	21	22	22	24	13	12	8	12	11	11	15	8	5	9	18	22
10	22	19	10	6	8	22	23	16	10	9	6	7	4	4	1	3	3	5	4	11	14	16	14	5	10
11	10	27	34	29	10	26	36	44	28	20	14	12	14	11	4	6	11	22	19	16	22	48	55	49	24
12	47	47	45	38	32	29	27	31	33	51	52	55	56	54	60	68	72	75	74	82	77	67	60	44	53
13	39	30	31	27	27	24	35	44	51	51	44	47	47	55	57	60	73	41	17	17	31	26	21	21	38
14	20	26	19	14	14	20	22	27	30	28	45	21	20	27	18	20	23	27	39	27	31	20	21	19	24
15	21	13	37	34	26	41	72	79	55	82	56	27	16	10	7	6	7	5	17	16	18	13	29	22	30
16	23	14	9	6	11	21	13	16	47	67	34	35	26	23	14	21	26	40	67	94	83	70	68	58	37
17	67	67	53	38	34	56	46	29	27	5	3	3	16	17	8	9	9	13	6	6	14	40	61	7	26
18	26	19	9	29	13	13	19	29	8	12	18	15	4	14	18	17	22	25	23	6	7	10	5	18	16
19	13	M	14	6	2	5	9	2	1	2	5	2	0	3	0	1	0	1	6	4	4	7	10	12	5
20	14	20	29	23	18	11	9	7	1	6	3	2	2	6	1	0	12	30	23	29	41	30	38	47	17
21	25	11	15	5	6	4	4	6	8	3	0	0	0	0	7	13	5	8	27	39	58	99	93	78	21
22	65	30	26	24	24	25	31	32	36	58	45	57	53	47	73	63	59	77	76	81	99	75	78	84	55
23	69	75	72	57	13	15	41	39	21	49	29	40	35	50	29	21	57	50	84	104	86	35	70	16	48
24	15	19	13	17	10	14	18	19	32	38	22	26	24	22	27	18	15	24	31	20	26	15	23	13	21
25	12	13	20	15	19	12	9	13	8	13	7	9	6	6	5	7	11	15	19	16	17	18	14	11	12
26	20	49	50	49	52	56	68	58	69	66	73	48	20	15	20	24	27	24	74	80	60	57	72	44	49
27	84	76	59	70	89	92	93	75	73	62	85	M	M	9	5	5	21	22	23	21	6	5	5	0	45
28	0	0	0	0	0	0	0	0	3	53	73	73	43	14	12	11	14	15	23	22	26	21	21	27	19
29	46	60	62	54	35	48	79	94	95	75	47	26	13	22	21	21	16	14	18	13	10	10	10	10	37
30	13	106	96	51	55	58	82	68	50	41	11	10	13	11	17	10	7	11	21	18	19	14	19	14	34

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
21	21	29	21	67	77	86	94	0	-	106	5	-	55	2	99	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	2	2	2	1	1	2	2	2	1	1	1	0	0	1	0	1	3	2	1	1	0	0	0	1
2	0	0	0	1	0	1	0	0	0	2	2	0	1	2	4	8	4	1	2	2	1	2	1	2	2
3	2	1	1	3	2	6	5	2	6	6	6	1	2	6	6	3	1	2	1	0	1	1	0	0	3
4	0	0	0	0	0	2	0	0	0	1	4	0	0	0	1	0	4	3	2	1	0	0	2	4	1
5	5	3	1	1	1	1	4	7	19	19	39	28	29	26	27	12	9	16	10	12	10	7	6	21	13
6	13	10	9	12	16	12	9	12	16	16	19	21	45	24	4	1	1	1	1	3	3	2	1	0	10
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0
8	0	1	1	1	1	0	0	1	1	1	0	1	0	0	0	0	1	1	0	0	3	1	1	0	1
9	0	0	0	0	0	0	0	1	1	0	1	1	2	7	6	5	13	30	16	8	6	7	15	11	5
10	12	7	6	9	12	15	18	26	27	20	14	25	29	42	38	24	12	7	3	3	3	3	3	4	15
11	2	3	5	3	2	1	1	3	2	3	2	2	1	6	1	0	0	0	0	0	0	2	2	0	2
12	0	0	0	0	0	1	0	4	2	2	5	5	3	2	3	10	18	10	10	7	6	4	2	6	4
13	1	5	6	6	3	2	1	15	2	7	34	19	15	17	7	3	2	1	0	0	13	15	7	9	8
14	7	6	6	5	4	4	3	3	2	2	5	16	12	10	3	6	2	3	2	1	0	0	0	2	4
15	2	4	2	3	2	3	1	2	0	1	1	0	2	1	0	0	0	0	0	0	0	3	1	2	1
16	1	2	2	1	1	3	1	0	3	1	2	1	1	5	2	2	2	2	2	1	1	1	0	0	2
17	1	0	0	0	0	0	0	0	2	1	1	1	0	0	1	1	0	0	0	1	3	2	2	2	1
18	4	2	3	1	0	0	1	2	1	1	1	2	1	1	1	2	2	2	3	2	2	2	3	2	2
19	0	1	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	2	3	1	1	1	1	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
23	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	2	2	2	2	0	1
25	0	0	0	0	0	0	0	0	4	1	2	5	6	2	0	1	2	2	1	1	1	1	1	0	1
26	0	0	0	0	0	1	1	1	1	0	0	0	0	2	1	0	0	1	2	1	2	3	5	1	1
27	1	2	1	1	2	3	3	3	4	4	3	3	2	1	1	2	2	1	3	4	4	2	2	2	2
28	1	2	2	2	1	1	2	2	3	3	3	4	3	4	4	4	5	4	6	3	3	1	1	0	3
29	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	3	4	7	4	2	1	1
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	4	1	1	4	1	1
31	0	0	0	0	1	0	1	1	0	0	0	0	3	1	5	13	27	10	7	1	3	15	1	13	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
3	1	3	1	7	15	24	29	0	-	45	0	-	15	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	6	2	2	2	2	2	4	6	10	17	26	22	16	15	17	19	27	34	29	14	14	24	7	3	13
2	1	2	1	3	3	3	6	9	16	22	22	19	16	20	34	32	31	22	19	18	15	13	10	11	15
3	11	M	6	8	5	11	14	12	17	22	21	9	10	15	14	17	18	18	15	14	14	15	9	3	13
4	0	0	0	0	0	5	1	0	3	9	19	8	13	20	31	26	44	34	27	26	29	16	71	96	20
5	80	57	32	21	9	5	12	47	98	93	96	76	65	68	61	37	31	44	43	61	92	35	37	120	55
6	50	44	33	12	26	20	19	32	83	97	123	126	108	67	16	9	13	12	7	7	5	2	2	0	38
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	0	1	0
8	0	0	0	0	0	0	2	3	7	3	1	0	3	9	2	12	10	11	12	14	11	7	1	5	
9	1	0	0	0	0	8	13	16	9	11	18	14	15	30	26	27	52	84	66	37	48	58	45	85	28
10	62	23	17	48	46	33	35	51	69	84	104	109	101	109	93	69	47	26	12	11	12	5	1	3	49
11	0	0	0	0	0	0	0	2	5	10	8	19	14	16	12	20	17	9	17	9	0	4	4	5	7
12	2	0	1	0	0	1	6	10	6	8	15	14	13	10	16	22	59	55	55	47	49	42	26	34	20
13	4	16	44	19	10	4	5	41	10	27	67	49	39	45	41	21	33	22	32	8	38	48	45	37	29
14	27	22	17	9	2	11	8	13	4	11	15	58	44	28	11	17	19	21	16	18	10	10	5	10	17
15	7	3	0	1	0	3	3	8	4	13	13	28	28	34	10	17	9	11	1	1	2	6	4	6	9
16	2	3	2	0	0	17	17	23	30	39	34	33	38	43	40	52	57	51	62	54	36	20	21	18	29
17	23	M	11	1	0	2	12	20	29	32	27	20	16	14	19	25	20	15	8	5	5	6	1	3	14
18	3	0	0	0	0	0	0	7	16	20	10	15	11	8	14	18	18	18	12	3	3	5	7	4	8
19	0	0	0	0	0	0	M	10	17	13	20	10	13	30	30	35	54	61	77	63	34	23	22	7	23
20	3	1	0	0	0	0	0	4	10	17	14	17	16	9	11	20	20	21	11	1	0	0	0	1	7
21	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	4	4	1	0	0	0	0	0	0	0	1	0	0	0	0	0
23	0	0	0	0	0	0	1	0	6	12	27	12	13	17	20	19	18	26	10	5	2	1	1	1	8
24	0	0	0	0	0	0	4	10	5	12	30	17	1	3	0	3	24	64	67	66	62	58	54	26	21
25	23	11	18	6	3	4	12	26	40	41	37	36	26	15	17	36	59	71	62	67	32	42	34	30	31
26	22	9	2	4	4	6	18	38	37	35	37	28	17	17	23	21	36	35	63	56	31	30	49	28	27
27	25	8	1	0	2	5	8	18	22	27	21	19	15	11	9	9	13	8	9	4	8	8	6	4	11
28	3	1	0	0	0	0	3	8	7	7	13	19	16	10	3	2	5	8	9	0	2	2	0	0	5
29	0	0	0	0	0	0	0	5	12	8	12	16	19	14	10	6	12	4	5	7	9	6	1	1	6
30	0	0	0	0	0	0	0	1	3	9	5	3	9	8	8	0	1	1	14	5	2	5	0	3	
31	0	0	0	0	5	3	2	4	0	1	1	1	2	1	4	10	23	14	16	2	10	21	2	23	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
12	10	17	10	45	62	86	100	0	-	126	0	-	55	3	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: MAY

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	4	3	3	4	1	1	4	3	2	2	3	3	2	0	0	1	3	2
2	3	4	4	3	3	3	4	4	6	5	3	2	2	2	6	4	3	7	5	3	5	5	6	7	4
3	5	4	3	3	5	5	5	7	9	10	5	1	6	7	3	4	3	1	1	2	3	3	2	3	4
4	2	3	1	3	1	2	2	3	3	9	4	2	2	4	2	2	13	26	10	5	8	6	6	6	5
5	7	6	5	5	5	22	10	15	24	24	14	60	42	36	29	18	15	19	21	24	35	29	39	30	22
6	35	29	21	31	24	22	17	14	28	61	71	95	22	6	2	1	1	3	6	6	7	7	4	4	22
7	4	2	1	2	2	4	2	1	1	1	1	1	M	2	2	2	1	2	4	5	5	1	2	2	2
8	1	2	1	2	3	2	3	4	3	3	4	2	2	1	2	3	2	4	2	2	3	4	5	0	3
9	1	4	1	2	2	2	1	5	5	11	37	36	10	12	28	28	29	38	37	62	37	40	28	21	20
10	18	14	41	55	48	48	46	33	36	49	45	31	58	37	16	11	11	8	13	12	7	6	6	5	27
11	6	6	5	4	2	2	3	6	5	5	4	3	3	2	1	1	1	2	3	3	4	5	3	2	3
12	3	3	4	3	4	4	4	8	18	17	14	12	10	7	14	22	29	24	12	10	7	5	7	5	10
13	6	19	7	7	14	30	33	30	15	10	11	24	19	11	9	4	1	6	8	2	9	10	7	5	12
14	6	6	6	5	3	2	3	2	3	3	3	3	3	4	9	4	2	3	2	1	1	1	0	4	3
15	5	6	7	7	8	10	5	3	1	1	1	1	1	1	1	0	1	1	1	1	1	3	1	1	3
16	1	1	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0
17	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	2	2	2	1	1
18	3	2	2	1	1	0	1	1	1	1	2	2	2	2	1	2	2	3	2	2	1	1	2	1	2
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	M	M	M	M	M	M	M	M	M	M	M	M
21	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
22	M	M	M	M	M	M	M	M	M	M	M	1	1	1	1	1	0	0	1	2	2	1	2	2	2
23	2	2	1	2	2	1	2	2	1	1	1	1	1	1	1	1	1	0	1	1	1	2	3	3	1
24	2	2	4	2	1	1	2	5	5	3	3	0	0	0	0	0	3	8	8	3	2	2	2	1	2
25	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1
26	1	1	1	1	1	1	1	2	1	1	0	1	3	2	1	1	1	2	1	1	3	4	4	2	2
27	3	2	2	3	4	5	5	5	5	5	5	5	3	2	3	4	2	4	6	4	5	4	3	3	4
28	3	3	3	2	2	3	3	4	4	5	6	6	5	8	7	7	4	8	3	3	3	2	1	1	4
29	1	1	1	1	1	1	1	1	2	1	M	M	2	3	2	3	4	5	4	2	4	2	3	2	2
30	1	1	1	0	0	0	0	0	1	0	1	1	1	2	3	3	1	4	9	5	3	4	2	1	2
31	2	1	1	0	0	1	11	20	10	11	21	7	10	7	3	5	2	4	2	2	3	3	3	2	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
3	2	6	2	15	29	40	49	0	-	95	0	-	27	3	93	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: MAY

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	6	4	5	4	5	6	11	11	14	13	8	7	9	8	8	17	25	47	22	14	8	7	8	11
2	10	9	9	7	8	7	12	16	14	12	9	5	5	5	8	9	11	20	18	17	17	15	19	18	12
3	18	M	12	9	10	11	11	14	14	13	7	3	8	7	3	6	9	8	12	12	16	14	13	14	11
4	12	13	5	11	8	9	10	15	11	16	18	26	27	30	27	29	48	77	83	72	80	75	75	59	35
5	59	74	65	59	60	80	57	59	66	55	44	75	73	55	43	38	52	52	46	58	47	43	47	33	56
6	34	50	43	39	27	22	29	34	50	90	91	107	38	13	8	6	7	12	17	10	10	8	4	7	32
7	8	4	2	7	4	13	6	5	6	5	4	5	M	5	6	6	3	9	16	15	11	7	8	8	7
8	6	8	6	7	8	7	13	20	14	12	11	6	5	5	4	6	8	10	8	10	13	13	10	11	9
9	10	35	10	21	21	21	21	40	37	37	54	56	24	24	44	49	52	66	88	103	65	64	47	62	44
10	83	85	86	61	66	86	63	67	84	108	124	88	104	69	37	30	33	21	29	17	12	8	7	11	57
11	7	7	6	5	4	4	10	16	11	11	6	5	5	3	3	6	8	9	13	9	18	17	14	5	8
12	7	5	8	3	3	4	3	8	17	18	15	11	13	10	14	21	56	90	83	77	60	55	64	67	30
13	52	74	43	45	58	77	80	66	56	55	53	67	66	43	50	47	45	49	45	41	41	49	39	40	53
14	37	30	29	18	14	12	11	16	18	14	13	13	11	10	16	16	14	13	19	14	7	5	6	8	15
15	10	6	5	4	9	18	10	10	2	11	8	2	7	1	0	2	4	6	4	4	7	11	3	13	7
16	10	14	8	10	16	22	24	24	18	19	16	18	17	18	19	15	17	17	20	18	11	6	4	6	15
17	11	M	7	6	6	6	8	14	13	11	11	8	6	6	8	11	12	11	10	9	10	8	7	7	9
18	8	6	6	4	3	4	7	6	5	6	6	6	7	6	6	9	9	9	11	12	8	6	8	5	7
19	5	5	4	4	5	3	5	7	7	6	6	6	6	6	6	10	14	19	18	14	13	10	7	7	8
20	5	4	4	5	4	4	5	5	5	8	7	6	6	M	M	M	M	M	M	M	M	M	M	M	M
21	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
22	M	M	M	M	M	M	M	M	M	M	M	9	4	4	4	5	3	4	7	7	9	6	7	8	
23	6	8	7	9	7	6	11	11	12	6	6	5	6	7	4	5	8	8	4	5	6	10	9	7	7
24	3	3	9	7	5	4	10	20	19	9	27	6	M	M	M	M	M	M	M	M	M	M	M	M	M
25	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
26	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
27	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
29	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	1	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	4	0	0	0	0	1
31	0	M	0	0	0	2	19	22	5	3	M	3	1	1	0	2	0	1	1	1	5	16	10	5	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL			
12	10	19	10	56	73	86	90	0	-	124	1	-	57	3	76	0	

- NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1
2	1	1	1	1	1	0	1	1	1	1	1	2	2	2	2	3	2	2	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	2	2	2	2	2	1	2	2	2	1	1	1	1	1	1	1	1
4	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	2	1	2	2	2	1	1	1
5	2	1	2	2	2	2	2	3	3	4	6	8	5	3	4	4	3	2	2	2	2	2	1	2	3
6	2	2	2	2	1	1	1	1	2	3	4	4	9	7	3	2	2	1	1	1	1	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	2	2	2	3	4	3	3	4	3	2	2	2	2	2	3	2
10	2	2	2	2	3	2	2	3	3	4	7	0	1	2	2	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	M	M	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE LIMIT LEVEL		
1	0	1	0	2	2	3	4	0	-	9	0	-	3	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	2	4	3	2	0	1	6	2	3	12	5	3	4	3	1	0	2	
2	0	1	0	0	0	0	1	1	4	9	4	10	2	5	9	16	10	7	10	7	5	4	3	3	5	
3	1	M	0	1	0	1	2	5	8	10	8	4	3	4	5	3	2	5	5	4	3	4	2	1	4	
4	0	0	0	0	0	3	4	3	5	10	13	7	11	17	15	14	19	22	13	13	12	14	12	15	9	
5	15	12	10	12	10	9	12	12	19	29	41	77	43	34	40	27	25	21	24	26	37	33	30	31	26	
6	16	12	7	8	4	7	8	19	34	43	45	48	65	40	15	12	12	15	10	7	5	4	3	5	19	
7	1	0	0	0	0	0	1	1	0	0	0	1	1	0	1	1	0	0	1	1	1	0	0	5	1	
8	0	0	0	0	0	0	1	5	5	5	4	2	3	3	3	3	5	5	3	6	5	4	5	3		
9	3	1	0	0	0	1	3	10	9	12	16	17	23	29	22	32	52	42	31	38	35	29	27	37	20	
10	29	26	31	30	28	16	14	32	39	42	M	70	87	104	97	79	69	54	39	21	19	14	10	14	42	
11	9	8	8	7	7	6	9	13	12	13	13	9	7	19	11	8	12	15	17	14	11	10	10	13	11	
12	7	6	6	5	4	5	12	15	11	11	17	15	15	12	13	17	30	35	37	31	31	28	29	30	18	
13	29	30	24	17	14	14	20	22	25	32	37	41	37	36	35	29	25	19	14	16	26	26	24	25	26	
14	22	20	21	15	13	12	13	18	35	35	28	33	26	17	17	18	17	16	14	14	13	12	12	15	19	
15	10	10	8	8	9	15	15	16	13	16	12	20	20	25	28	28	26	24	16	12	10	10	7	14	16	
16	9	10	9	6	7	11	12	13	13	17	18	19	20	18	27	36	26	31	28	23	17	13	13	15	17	
17	12	M	10	6	5	6	12	22	26	24	15	16	13	12	12	15	19	15	15	13	11	10	8	10	13	
18	6	6	6	4	3	4	6	9	12	11	10	9	10	9	10	12	13	13	13	9	8	8	8	10	9	
19	5	4	4	4	4	3	5	10	12	12	13	12	10	11	14	12	15	15	23	24	16	13	11	11	11	
20	6	5	4	4	4	4	5	5	7	8	8	8	10	8	8	10	10	11	8	7	6	6	5	9	7	
21	4	4	3	3	3	3	4	5	4	5	5	5	5	5	5	6	6	4	5	4	3	3	7	4		
22	3	3	3	3	3	3	5	7	8	9	8	6	6	6	7	M	M	0	0	0	0	0	0	1	4	
23	0	0	0	0	0	0	0	0	2	0	1	0	0	0	M	M	12	16	18	18	16	18	17	21	6	
24	16	12	9	8	8	9	14	21	23	25	21	18	16	18	20	29	26	31	28	29	30	28	25	18	20	
25	18	16	15	12	10	10	12	17	16	18	26	41	26	18	18	23	31	50	41	31	22	18	15	16	22	
26	16	13	11	11	10	11	15	20	21	20	23	26	18	18	22	19	20	23	26	24	20	21	20	20	19	
27	14	13	10	10	9	10	13	17	17	17	16	16	15	14	14	17	16	17	16	18	16	15	15	13	15	
28	12	11	10	10	9	10	11	12	13	13	14	15	15	17	17	15	18	16	17	14	13	13	11	11	13	
29	9	9	8	8	8	8	9	11	12	12	13	14	16	16	16	18	16	15	15	15	15	15	12	13	13	
30	9	9	8	8	8	8	10	11	11	11	10	11	16	14	13	12	14	20	19	19	19	17	13	14	13	13
31	9	M	10	11	11	10	11	15	12	10	12	12	19	17	22	18	15	14	15	12	17	19	17	18	14	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
11	12	13	12	28	35	42	61	0	-	104	1	-	42	2	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	2	2	1	1	1	1	1	2	1	1	2	0	0	7	0	2	11	1	0	1	0	0	0	2
2	1	8	1	2	1	1	0	0	1	5	6	4	3	3	6	12	4	1	2	2	1	1	1	2	3
3	2	1	2	4	3	6	6	6	12	12	10	4	5	7	10	6	3	5	4	1	1	2	2	2	5
4	1	1	1	0	0	5	3	1	2	4	8	1	1	2	4	5	7	8	7	7	6	4	8	6	4
5	5	6	8	7	10	12	9	14	29	54	57	53	32	21	15	15	14	13	23	27	15	16	21	28	21
6	21	23	21	21	18	17	13	15	26	53	45	30	44	28	4	2	1	1	1	2	2	2	2	1	16
7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	1	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	2	1	0
9	2	1	0	0	1	1	2	4	3	5	15	6	19	22	20	15	43	27	26	28	18	20	36	33	14
10	37	28	48	66	46	34	34	46	48	35	29	40	39	52	52	52	33	21	12	3	3	3	3	5	32
11	3	3	4	3	2	2	2	2	3	2	7	10	4	22	3	1	1	1	1	1	1	2	2	1	3
12	1	1	1	1	1	1	5	9	6	5	21	14	9	4	12	18	24	13	11	16	9	12	13	16	9
13	20	31	21	15	10	9	8	22	27	26	45	33	23	23	10	5	2	1	1	1	7	8	7	8	15
14	7	6	8	6	4	5	4	5	26	26	23	21	18	12	9	14	4	5	2	2	1	1	3	4	9
15	5	7	5	4	4	8	5	5	1	2	1	14	27	23	44	24	11	3	1	0	0	4	2	3	8
16	3	5	4	2	5	4	5	2	3	2	1	0	0	2	1	11	7	1	1	1	1	2	1	0	3
17	1	0	4	0	0	0	1	3	17	25	6	15	1	1	4	0	0	1	1	1	2	1	2	2	4
18	2	2	2	1	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	1	2	2	1
19	0	0	0	0	0	0	0	0	0	0	0	M	0	0	1	1	0	0	1	1	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	2	1	4	0	0	1	0	0	0	1	1	7	1
24	3	1	0	0	0	0	2	2	1	1	0	0	0	0	0	0	1	10	6	6	5	6	7	2	2
25	1	0	0	0	0	0	0	2	1	1	2	16	11	2	0	0	4	10	19	16	2	1	1	1	4
26	0	0	0	0	0	0	2	4	3	0	8	8	15	2	1	0	0	2	2	1	3	4	6	2	3
27	2	2	1	1	2	3	4	4	4	4	3	3	2	1	2	2	2	1	3	4	3	3	2	3	3
28	2	2	2	2	2	2	3	3	3	3	3	4	4	4	5	5	6	4	6	3	3	2	1	1	3
29	0	0	0	0	0	0	0	0	0	1	1	1	1	2	10	3	3	2	3	4	4	4	2	1	2
30	0	0	0	0	0	0	0	0	0	2	11	16	11	3	1	2	2	1	1	4	2	0	2	1	2
31	0	1	0	1	3	5	7	4	0	0	2	4	9	6	16	27	14	4	4	2	4	5	7	4	5

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----									RANGE-----			STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
4	2	6	2	18	27	44	50	0	-	66	0	-	32	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	9	5	5	4	4	4	6	9	11	14	12	12	7	6	15	8	8	27	15	13	21	6	5	4	10
2	9	36	7	9	7	6	6	12	17	22	19	15	12	12	20	25	23	20	22	16	12	11	8	12	15
3	9	5	7	10	7	12	14	19	24	23	19	10	14	12	14	10	14	12	8	10	14	8	8	7	12
4	6	5	4	2	4	16	10	8	16	21	33	31	39	44	54	69	71	65	67	93	91	88	86	80	42
5	75	73	74	70	75	75	67	67	83	98	96	91	87	74	57	45	38	39	58	76	57	61	57	70	69
6	36	37	27	27	26	32	37	58	107	142	160	118	118	60	28	21	29	26	16	15	12	10	10	10	48
7	6	M	6	5	6	7	9	8	8	8	8	8	8	8	7	8	9	9	9	12	14	11	9	10	8
8	7	6	5	7	6	5	9	13	12	11	12	8	8	8	11	9	14	15	14	10	17	12	13	20	11
9	26	16	8	7	16	30	53	45	36	50	51	43	50	49	49	55	86	68	91	98	84	96	91	93	54
10	90	73	88	101	76	40	64	100	97	110	103	118	99	112	99	98	89	84	57	22	26	18	7	7	74
11	1	3	5	1	0	0	2	8	9	13	21	16	5	21	5	3	8	15	11	15	5	7	3	10	8
12	3	1	1	0	0	0	14	19	10	12	28	18	11	13	17	23	74	64	63	75	57	68	63	89	30
13	86	91	81	55	53	55	42	62	63	68	74	70	63	67	56	44	49	46	46	37	43	37	38	54	58
14	52	49	37	18	17	21	24	35	46	46	52	49	34	18	14	22	12	13	10	8	6	7	10	13	26
15	13	9	5	3	5	16	15	17	12	24	13	27	37	44	54	50	46	37	11	M	M	M	M	M	23
16	M	M	M	M	M	M	M	M	M	M	M	M	M	42	28	50	45	36	47	38	26	27	24	17	
17	17	26	32	16	10	11	24	37	48	48	22	33	17	20	26	23	33	33	29	25	20	22	13	12	25
18	12	9	9	7	5	6	11	21	22	29	24	19	19	18	23	18	29	33	25	14	15	18	17	10	17
19	10	8	6	5	7	6	9	13	17	20	15	M	15	18	27	38	52	51	71	67	30	23	17	19	24
20	14	9	8	8	7	6	8	14	22	28	30	26	18	23	26	23	20	24	28	24	14	11	9	7	17
21	4	M	3	2	2	2	4	6	6	5	8	6	5	4	5	5	5	7	7	10	4	4	2	4	5
22	3	4	3	2	3	3	4	7	11	17	13	10	8	6	7	9	11	11	11	13	8	6	6	6	8
23	5	5	3	3	3	2	5	9	27	21	30	20	24	9	14	11	12	20	21	17	10	34	36	51	16
24	27	6	2	2	2	4	15	33	26	29	42	38	27	41	39	46	54	75	77	81	79	74	65	27	38
25	22	30	28	15	10	14	28	43	45	53	45	61	41	18	28	51	75	97	95	105	62	37	36	27	44
26	25	19	12	13	15	22	52	60	47	36	45	45	40	29	22	24	25	27	56	56	40	32	52	47	35
27	42	34	12	11	9	13	16	20	24	24	23	19	15	17	21	24	24	26	26	26	22	20	20	16	21
28	11	9	9	7	5	5	8	12	14	17	18	20	17	19	19	15	19	20	22	12	11	9	6	6	13
29	5	4	4	3	3	3	7	10	19	20	20	22	19	20	34	20	20	14	14	21	21	20	13	11	14
30	7	6	6	6	3	3	6	9	15	20	28	33	28	14	8	11	14	20	22	25	20	9	9	6	14
31	4	4	3	5	12	15	20	22	6	10	8	10	16	12	16	24	14	9	12	9	17	23	17	13	13

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
17	17	27	17	67	86	98	107	0	-	160	5	-	74	3	97	0

- NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	8	5	5	5	4	4	4	5	6	5	6	5	4	4	5	5	6	6	4	5	4	3	3	3	5	
2	3	3	3	5	5	6	4	5	7	15	6	3	8	17	31	31	6	6	12	7	5	10	5	10	9	
3	9	5	8	11	7	15	18	16	33	55	58	13	24	25	34	18	7	12	5	4	4	8	6	7	17	
4	5	5	4	4	6	26	12	5	7	14	24	4	5	4	14	10	36	42	15	8	9	11	13	15	12	
5	49	50	42	35	29	46	39	39	65	139	109	51	47	64	44	28	26	16	50	39	39	33	66	75	51	
6	47	38	28	48	36	28	20	21	59	92	60	67	89	20	6	4	4	3	7	9	8	7	7	5	30	
7	2	3	2	2	2	3	2	2	2	1	1	1	2	3	2	2	3	2	3	5	5	4	2	4	3	
8	3	2	2	3	3	3	3	5	4	4	4	3	2	2	1	3	5	5	4	4	6	10	13	2	4	
9	5	11	5	8	4	4	4	3	6	11	19	21	78	40	31	46	54	61	64	73	57	49	48	30	31	
10	84	49	82	80	79	64	55	45	46	54	49	55	125	110	99	59	45	14	8	10	7	6	5	9	52	
11	6	5	6	4	4	3	3	5	5	5	4	4	2	8	2	1	2	2	3	4	5	6	8	5	4	
12	4	6	6	4	5	8	11	26	33	41	53	17	18	10	19	37	26	23	19	23	13	11	16	20	19	
13	18	19	20	12	20	39	46	48	15	10	37	44	27	24	14	5	4	1	13	29	50	60	35	12	25	
14	13	12	15	12	14	11	13	8	8	11	6	37	22	14	14	9	9	9	6	5	4	6	4	6	11	
15	9	14	18	17	22	21	16	11	2	5	8	5	11	7	2	2	2	2	2	2	2	6	5	10	8	
16	7	8	8	4	14	8	7	3	4	7	3	1	0	2	2	1	8	27	17	2	4	3	2	2	6	
17	2	3	3	3	3	3	3	3	4	4	3	3	3	3	2	3	3	4	4	3	4	4	4	4	5	3
18	7	4	5	3	3	3	3	4	4	4	4	4	4	4	2	3	4	5	6	4	4	4	5	3	4	
19	2	2	2	1	2	2	1	2	2	2	2	2	2	2	2	1	1	2	3	2	2	2	2	1	2	
20	1	1	2	2	2	1	1	1	1	1	2	2	1	1	1	2	1	1	2	2	2	2	1	2	1	
21	1	1	1	1	1	1	1	2	1	1	2	2	2	2	2	1	1	1	1	1	0	0	1	1	1	
22	1	2	1	2	2	2	2	2	2	1	2	3	2	2	1	2	1	1	1	4	4	2	2	4	2	
23	3	5	3	3	4	3	3	3	2	1	1	2	2	2	3	3	2	2	2	2	2	3	4	3	3	
24	3	2	4	5	3	3	16	14	12	16	10	1	1	2	1	2	4	14	22	10	11	8	8	3	7	
25	5	7	3	2	2	3	2	4	6	8	4	18	6	2	2	1	3	3	3	2	3	2	3	2	4	
26	2	2	2	2	2	3	6	19	3	1	1	4	1	3	2	1	2	2	2	2	3	4	5	3	3	
27	4	4	4	4	6	7	7	8	7	7	6	6	5	4	4	5	5	4	7	7	6	6	6	5	6	
28	4	5	4	4	4	4	4	5	5	6	6	7	6	7	8	8	8	6	9	6	5	4	2	4	5	
29	4	4	4	4	3	2	3	3	4	4	4	5	4	5	7	5	7	6	8	8	9	9	5	4	5	
30	3	3	3	3	3	3	2	2	2	3	3	3	3	3	5	6	5	5	10	16	9	8	10	6	5	
31	4	6	8	7	6	9	19	9	10	13	17	21	19	18	20	18	10	8	11	10	11	11	18	15	12	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
6	5	11	5	32	49	66	83	0	-	139	1	-	52	3	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	1	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	5	7	0	10	0	1	4	1	
2	7	0	0	0	0	0	0	0	0	4	0	0	0	2	10	12	0	0	9	2	0	3	0	3	2	
3	2	0	2	6	0	4	8	6	15	28	22	2	9	9	10	2	0	2	2	0	0	4	1	1	6	
4	0	0	0	0	0	12	5	0	0	3	16	15	18	12	31	22	48	69	68	63	80	88	79	75	29	
5	84	78	77	75	70	77	70	64	72	94	82	60	78	86	62	49	47	45	84	59	64	87	101	103	74	
6	65	24	16	37	12	14	30	54	98	108	112	144	98	14	3	0	1	1	1	0	0	0	0	0	35	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	8	1	
9	21	M	10	19	7	20	37	37	29	46	60	58	66	37	43	59	74	78	102	104	84	76	101	100	55	
10	108	112	97	100	96	52	52	80	104	125	154	140	139	148	116	73	64	34	11	12	7	3	2	8	77	
11	2	4	3	1	1	0	0	2	3	5	3	0	0	5	1	1	3	3	4	3	2	8	10	4	3	
12	0	2	2	0	1	5	11	24	21	18	38	26	24	28	41	49	50	77	87	100	68	57	67	123	38	
13	88	69	76	51	69	82	81	69	52	46	76	84	72	61	56	35	51	46	55	76	69	65	59	39	64	
14	34	31	33	29	27	23	32	22	10	13	7	57	34	9	8	5	3	5	15	3	1	1	0	2	17	
15	0	0	1	1	8	10	4	2	1	12	7	11	19	18	2	18	6	0	0	0	0	0	0	6	5	
16	5	4	3	0	9	18	21	20	28	43	30	31	30	32	31	23	39	72	57	31	6	0	0	9	23	
17	4	4	0	3	1	0	6	13	19	13	11	3	2	6	1	0	1	1	0	0	0	0	0	0	5	4
18	6	3	2	2	1	1	4	8	12	9	10	9	11	11	9	16	11	15	10	5	6	4	6	10	8	
19	5	3	1	1	2	2	5	11	12	12	10	13	12	14	16	24	31	54	57	36	19	12	10	4	15	
20	5	4	2	2	2	0	3	5	7	12	10	9	10	9	10	15	12	13	11	4	0	0	0	0	6	
21	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	3	4	1	0	0	2	0	0	0	2	0	0	0	0	1	1
23	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	8	3	7	1	
24	0	0	0	0	0	0	9	11	6	13	24	17	13	20	27	19	26	57	70	72	74	70	61	23	26	
25	17	24	16	7	1	3	8	21	34	41	35	31	13	0	0	6	44	55	13	6	2	0	0	1	16	
26	10	1	1	1	2	4	18	26	17	17	19	8	2	2	3	8	9	15	21	34	10	9	8	36	12	
27	33	28	15	6	6	9	15	25	24	24	18	14	13	17	20	17	16	14	11	10	8	6	7	8	15	
28	9	7	6	5	5	6	10	13	13	12	12	12	12	14	14	14	11	13	17	7	4	3	1	0	9	
29	0	0	0	0	0	0	1	5	7	6	8	10	2	1	5	5	6	3	7	8	7	9	1	0	4	
30	0	0	0	0	0	0	0	1	3	5	4	2	1	1	1	6	9	15	25	27	9	0	3	0	5	
31	0	0	1	0	1	11	13	10	11	11	12	14	11	12	12	12	5	7	7	5	8	8	7	4	8	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL
11	6	18	6	65	81	102	114	0	-	154	0	-	77	4	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	5	5	4	4	4	4	6	6	9	38	36	9	8	12	15	7	13	8	8	7	5	6	5	10
2	5	6	6	6	6	6	7	9	12	15	24	22	23	26	26	27	15	27	14	10	10	12	19	20	15
3	22	16	17	10	7	7	9	12	11	10	9	8	4	4	8	4	2	5	4	7	4	5	4	7	8
4	13	14	9	10	6	4	2	3	5	4	1	0	0	0	0	0	2	2	1	1	3	3	2	12	4
5	12	8	7	5	4	3	4	8	9	10	13	15	13	14	15	25	18	18	14	14	12	10	11	11	11
6	11	14	12	14	12	12	13	19	23	21	19	22	23	38	17	12	29	30	16	14	11	10	9	9	17
7	6	6	6	2	5	4	4	3	3	4	5	2	2	2	2	2	2	3	2	6	3	4	3	3	4
8	4	2	2	3	4	3	4	6	6	6	6	9	4	3	5	4	11	12	5	7	10	9	3	1	5
9	1	0	0	0	0	0	1	2	17	16	12	10	14	23	10	8	9	16	10	12	15	10	10	10	9
10	9	8	7	7	9	15	11	14	19	30	37	22	22	26	29	28	24	29	21	21	12	11	7	10	18
11	10	8	10	11	7	7	5	8	9	8	8	10	11	6	12	10	13	12	18	21	15	10	10	7	10
12	10	10	13	16	13	17	12	14	7	7	7	5	3	12	13	16	14	14	12	12	9	9	6	5	11
13	6	5	8	6	5	6	8	8	13	18	27	34	36	33	27	14	8	6	4	3	7	8	9	9	13
14	8	9	14	12	11	18	13	35	34	31	24	18	14	12	20	13	14	9	3	2	2	1	2	4	13
15	4	5	4	4	5	3	3	3	1	1	2	4	5	7	3	4	4	2	2	1	1	0	0	1	3
16	1	1	1	1	2	3	1	1	1	1	1	1	1	3	4	5	4	5	6	4	4	6	2	2	3
17	5	4	5	4	3	3	4	6	9	10	9	3	6	4	3	5	7	5	4	2	3	3	5	3	5
18	2	5	5	4	2	2	3	2	3	3	3	6	3	4	6	7	8	4	5	3	4	6	6	3	4
19	4	4	4	2	1	2	1	2	5	2	3	3	2	3	2	3	2	3	2	4	2	6	8	4	3
20	3	3	1	1	1	1	0	1	0	1	4	3	2	2	2	3	2	1	0	1	3	2	1	3	2
21	1	1	2	1	1	5	4	4	5	3	5	3	5	2	3	1	1	1	5	3	1	2	1	1	3
22	1	1	2	1	1	2	2	2	2	2	1	4	3	3	2	1	2	1	1	3	3	3	1	2	2
23	2	3	3	5	5	3	3	7	6	5	2	1	3	2	3	4	1	2	3	2	2	3	3	5	3
24	5	6	7	5	5	5	4	2	2	1	0	0	0	0	1	2	2	5	6	13	11	10	11	4	4
25	2	2	1	1	1	1	2	2	3	3	3	3	8	3	3	4	7	12	12	2	4	3	3	2	4
26	2	2	2	4	4	4	3	4	7	8	4	2	5	4	2	2	2	1	7	9	6	5	17	7	5
27	5	5	6	7	4	3	3	5	6	13	9	8	6	8	4	5	5	3	5	6	9	10	6	5	6
28	7	5	4	5	5	3	5	5	6	7	6	8	6	7	12	10	10	6	8	5	4	3	3	3	6
29	2	2	4	2	1	2	4	1	4	3	3	6	5	6	4	4	4	5	5	4	4	5	3	3	4
30	3	5	3	2	1	3	4	3	2	5	5	4	3	5	5	7	8	6	4	8	9	6	6	6	5
31	6	5	5	5	7	4	2	3	3	2	1	4	3	4	3	3	2	4	4	2	3	5	3	2	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
5	5	7	5	14	21	28	34	0	-	38	2	-	18	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: MAY

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	15	13	12	6	13	15	9	17	18	22	21	26	11	6	12	19	8	28	25	20	19	12	15	12	16
2	18	22	25	23	18	19	28	36	30	24	31	31	19	21	25	31	23	61	49	25	32	37	42	56	30
3	66	M	57	43	34	23	27	27	19	15	13	16	9	8	12	9	7	8	14	27	27	29	28	28	24
4	40	38	27	35	24	12	3	7	5	4	1	7	19	7	4	10	10	25	20	59	110	109	95	109	33
5	105	99	96	90	89	85	78	87	89	101	117	97	98	58	43	70	38	44	39	42	47	154	120	52	81
6	55	53	16	14	26	51	88	94	102	75	71	75	64	55	29	19	32	53	37	17	7	4	5	3	44
7	1	1	4	0	3	1	6	0	1	1	1	0	0	0	0	0	0	0	0	5	0	0	0	1	1
8	0	0	0	0	2	0	1	3	5	1	5	2	0	0	0	0	6	8	1	12	28	39	12	26	6
9	15	3	0	0	7	24	29	32	64	81	73	71	55	52	40	29	26	38	43	52	64	138	116	58	46
10	105	101	75	55	38	45	42	62	82	98	126	79	51	50	60	56	42	59	55	36	18	9	4	8	57
11	3	7	9	6	1	1	0	3	4	5	4	8	8	6	15	11	19	22	54	79	54	23	21	16	16
12	27	22	33	40	30	43	44	38	22	4	4	1	1	5	9	8	60	80	56	73	84	97	102	118	42
13	86	84	76	68	82	63	64	62	81	102	106	116	114	114	93	88	114	124	122	109	108	84	61	92	92
14	83	69	76	73	71	73	71	87	86	66	73	48	22	16	24	19	22	13	7	4	1	0	6	12	43
15	9	11	9	9	10	8	7	11	3	3	34	49	55	70	35	23	26	13	8	6	6	0	0	6	17
16	1	0	0	0	1	45	35	22	23	23	25	30	34	57	59	66	74	64	68	106	37	20	6	11	34
17	18	M	29	13	10	21	51	68	75	79	54	10	15	11	7	9	14	7	7	3	4	3	9	2	23
18	0	5	6	1	1	4	3	5	7	11	6	13	12	6	6	13	17	6	2	1	9	24	15	4	7
19	6	16	18	3	3	6	14	32	37	14	23	21	5	21	49	47	49	71	73	81	75	85	83	17	35
20	8	8	2	4	3	4	3	19	11	16	16	11	39	7	22	28	33	29	6	6	10	3	1	14	13
21	3	4	6	6	1	16	15	13	21	13	18	10	17	4	8	2	1	4	16	13	5	14	3	2	9
22	1	2	4	2	1	4	5	3	2	4	2	11	4	2	0	2	0	1	1	6	3	4	3	10	3
23	7	12	9	22	21	10	11	16	12	7	6	4	5	5	6	10	6	11	19	14	23	20	15	57	14
24	65	30	34	19	26	35	32	12	9	23	23	44	77	77	61	59	67	78	100	115	114	106	92	74	57
25	36	24	27	30	30	30	37	34	44	50	37	39	39	14	15	28	51	125	106	24	23	19	15	5	37
26	6	25	3	20	32	38	25	23	32	38	42	18	10	7	14	13	17	18	60	111	84	26	106	111	37
27	87	65	73	67	17	18	33	51	59	89	54	34	21	17	7	10	9	7	6	7	14	16	12	8	33
28	10	8	7	8	8	1	12	23	15	15	4	7	6	9	12	9	10	3	7	2	0	0	0	1	7
29	0	4	18	9	10	14	12	3	23	14	11	8	1	3	2	1	0	1	1	1	0	1	0	1	6
30	2	6	3	4	1	6	10	4	4	8	20	9	0	1	0	1	1	2	2	14	18	5	4	5	5
31	6	M	10	17	17	21	28	47	26	2	0	2	0	0	0	0	0	0	3	0	8	15	3	0	9

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
16	15	28	15	79	98	114	118	0	-	154	1	-	92	4	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA PEAK
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	M	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	1	0	0	M	1	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	3	2	0	0	1	4	1
11	1	1	1	0	0	0	2	1	0	2	14	5	11	10	7	2	2	0	0	0	0	0	0	1	3
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	2	0	0
20	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	2	6	16	13	0	0	0	1	2
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	4	2	4	2	1

MONTHLY STATISTICS:

GEOM	ARITH -----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR		DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL	
2	0	0	0	0	1	3	6	0	-	16	0	-	3	2	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA PEAK
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	4	0	0	0	0	3	9	0	1	0	0	0	1	2	1	0	0	1	8	7	17	3	0	0	2
2	0	34	12	3	0	27	42	64	93	10	3	38	22	4	2	5	4	14	12	18	92	31	26	17	24
3	7	9	6	1	1	2	29	7	6	6	10	8	28	12	12	22	24	13	21	11	8	15	9	11	12
4	0	1	1	0	1	3	1	8	7	5	12	M	4	2	4	3	4	10	11	6	5	5	5	2	4
5	8	5	5	5	14	1	1	9	10	13	7	10	4	11	73	18	21	20	17	20	18	13	12	11	14
6	7	9	4	4	5	13	10	13	19	16	14	M	15	20	19	19	19	18	17	18	18	15	14	23	14
7	19	11	8	9	11	11	12	18	24	29	30	26	23	29	36	35	39	30	35	36	34	32	24	11	24
8	11	5	1	1	1	1	0	4	9	11	11	15	13	17	13	18	17	12	13	6	5	5	5	2	8
9	2	1	1	3	2	2	1	5	7	9	10	7	6	7	9	13	11	5	7	9	11	7	8	3	6
10	3	4	3	3	4	8	10	13	14	22	15	11	11	15	14	22	22	20	33	28	29	39	32	13	16
11	10	10	12	9	7	7	14	6	5	30	41	22	23	24	20	12	17	18	9	9	11	4	4	7	14
12	6	5	7	6	3	6	6	6	8	6	5	5	8	9	10	15	20	16	17	12	4	6	7	10	8
13	11	11	23	13	6	1	8	8	9	10	12	5	5	10	47	21	18	21	17	8	10	11	10	8	13
14	7	M	3	4	4	17	17	9	10	6	10	34	28	22	25	22	25	23	16	25	16	19	18	11	16
15	16	6	16	10	8	12	11	21	16	16	26	29	21	26	31	34	37	35	20	19	19	13	14	11	19
16	12	4	9	5	11	10	21	19	24	21	36	22	11	13	8	26	13	22	14	11	9	6	8	7	14
17	16	12	2	3	30	7	14	25	29	33	26	37	31	33	45	45	47	29	30	45	41	14	20	14	26
18	12	15	14	7	6	7	6	17	15	10	22	9	7	9	23	21	20	23	33	10	7	6	8	26	14
19	34	24	27	2	2	7	22	27	27	24	10	22	21	33	27	12	18	16	10	7	5	34	50	9	20
20	36	25	18	3	4	23	26	21	22	18	17	37	28	19	42	35	39	48	60	56	21	8	27	8	27
21	10	9	7	4	18	18	26	14	23	18	12	16	22	19	30	17	33	15	15	10	9	10	7	9	15
22	7	8	4	4	4	4	6	12	12	14	15	10	11	8	9	14	12	17	14	23	24	29	17	13	12
23	12	7	21	20	16	8	24	15	12	15	13	11	11	10	14	15	19	18	21	27	29	13	26	13	16
24	15	11	8	11	5	7	11	7	8	15	20	12	13	9	15	37	38	21	24	26	17	25	25	15	16
25	9	9	20	4	4	8	7	15	9	12	21	22	10	6	10	14	15	16	20	19	17	14	12	12	13
26	5	6	10	11	6	3	8	11	19	27	13	7	9	23	9	14	22	12	9	10	9	15	10	12	12
27	12	6	9	23	6	8	9	12	19	13	21	12	8	21	15	17	13	14	13	21	18	13	11	10	14
28	10	M	7	6	6	7	12	11	9	11	10	8	9	5	12	10	10	11	13	13	17	14	17	8	10
29	10	10	6	12	10	12	10	9	8	20	8	11	14	20	34	24	18	13	18	25	24	23	22	14	16
30	17	16	14	18	10	17	16	17	20	12	11	11	13	13	13	11	16	16	22	31	30	31	33	21	18

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
12	12	15	12	28	34	42	48	0	-	93	2	-	27	2	99	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

MONTH: JUNE

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	3	3	1	1	2	2	3	3	3	2	1	1	1	1	2	2	4	3	2	1	2	3	2	2
2	1	2	1	1	1	2	1	2	3	2	3	1	1	3	1	0	2	3	1	2	1	1	2	1	2
3	0	0	1	0	0	0	0	2	2	3	2	0	2	2	1	1	0	0	0	0	1	2	1	2	1
4	1	0	0	1	1	1	2	2	1	2	0	1	1	0	0	1	0	0	1	2	1	1	0	3	1
5	2	1	1	2	1	1	1	2	2	2	3	2	1	1	1	1	2	1	1	1	1	0	1	1	1
6	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1
7	0	0	0	0	0	0	0	1	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
10	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
11	0	0	1	1	1	1	2	5	5	3	3	6	8	6	2	1	0	0	0	0	0	0	0	1	2
12	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	3	3	4	5	3	2	1
14	3	1	3	2	5	4	4	2	1	2	2	6	14	27	17	23	9	10	6	11	6	5	6	10	7
15	6	5	6	5	5	3	4	1	2	3	5	5	1	0	2	4	4	3	5	6	5	2	5	5	4
16	1	0	1	0	1	3	2	4	1	2	1	1	0	1	3	3	1	2	1	2	2	2	2	2	2
17	1	0	0	0	0	0	0	1	0	0	1	12	6	2	1	1	1	1	0	1	1	1	1	3	1
18	4	7	6	5	8	10	5	3	1	3	2	1	1	3	1	1	4	19	12	5	0	2	2	3	5
19	1	1	1	3	4	1	2	4	3	1	3	2	3	3	4	3	1	1	2	2	3	3	5	6	3
20	8	3	1	3	2	3	3	1	1	2	1	2	2	1	0	2	3	3	5	4	6	4	10	8	3
21	7	2	1	1	2	3	6	5	2	1	1	3	1	0	1	4	6	5	5	3	6	5	4	2	3
22	2	5	3	3	4	3	2	2	6	4	13	5	4	1	0	M	0	0	0	0	0	0	0	1	3
23	1	0	1	2	2	2	3	3	7	3	3	2	2	2	1	1	1	1	0	2	4	3	2	4	2
24	2	2	3	3	4	1	5	1	6	4	3	5	2	4	1	4	9	5	3	2	3	3	4	5	4
25	3	4	4	2	1	2	4	2	3	5	8	5	5	5	2	1	2	2	1	1	2	4	4	6	3
26	5	7	8	4	8	7	10	11	8	10	5	1	5	1	3	2	2	1	3	2	0	1	2	4	5
27	6	3	6	3	3	4	5	5	6	7	7	4	4	3	0	1	4	6	2	1	2	6	6	8	4
28	5	7	8	9	6	9	13	14	12	21	7	3	3	1	1	2	2	2	1	0	1	1	3	5	6
29	6	7	9	9	11	5	3	4	4	10	5	5	3	2	2	5	2	1	1	1	3	4	5	7	5
30	6	7	6	8	4	4	2	4	5	11	13	7	6	10	11	5	3	5	6	3	3	3	3	2	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
2	2	3	2	6	8	11	13	0	-	27	0	-	7	2	100	0

NOTES:

1. FLAGS FOR INVALID DATA :
 - D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT

STATION : CHUNG HOM KOK ZONE SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

MONTH: JUNE

YEAR : 2017

UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	0	0	4	4	2	3	1	0	0	0	0	0	0	0	3	2	1	0	0	1	0	1
2	0	0	0	0	0	0	0	1	2	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0
3	0	0	0	0	0	0	0	2	1	1	0	0	3	1	0	0	0	0	0	1	0	1	3	1	1
4	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	5	3	4	3	5	4	7	3	8	9	7	5	12	6	3
6	6	9	5	5	8	11	11	9	6	4	5	3	3	2	3	3	3	4	7	8	5	4	5	9	6
7	6	2	0	3	4	1	4	8	5	1	1	4	1	3	1	2	2	2	6	5	6	8	7	11	4
8	4	0	0	0	0	0	1	5	3	2	2	1	1	0	2	3	4	2	4	5	3	4	7	2	2
9	1	0	0	2	0	0	0	3	1	1	1	2	1	0	0	2	1	4	4	6	8	4	7	4	2
10	0	1	0	0	0	1	4	3	2	4	2	2	0	1	1	1	1	4	7	M	5	6	2	6	2
11	3	4	6	2	8	4	6	6	6	4	6	7	12	7	5	3	2	7	7	11	5	3	2	4	5
12	2	0	1	1	4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	9	1
13	9	18	10	12	0	0	0	2	1	5	5	5	17	15	8	10	6	16	10	17	14	19	10	17	9
14	10	2	5	8	17	15	13	6	3	18	7	16	21	26	20	31	20	22	12	24	13	11	14	17	15
15	13	11	18	16	16	7	11	6	7	7	10	10	2	5	10	10	8	12	11	17	12	7	14	12	11
16	6	0	7	2	5	6	8	13	6	10	6	10	5	5	4	14	11	10	14	11	4	7	11	14	8
17	9	25	3	11	5	10	11	14	18	19	27	46	46	37	29	15	23	41	36	31	37	27	17	28	24
18	22	26	23	11	14	25	16	9	9	8	7	2	2	9	4	5	12	31	17	18	6	7	8	18	13
19	5	3	1	0	2	1	8	9	16	21	17	9	10	5	6	7	4	15	23	21	18	21	21	6	10
20	9	4	6	16	7	8	11	12	9	7	4	8	7	6	7	11	10	9	8	5	7	4	5	12	8
21	11	4	1	2	3	7	16	15	4	7	8	10	5	4	7	7	14	3	9	5	9	8	5	3	7
22	2	8	3	4	4	3	2	1	3	6	9	2	5	3	2	M	3	4	4	6	8	5	3	4	4
23	1	0	3	4	1	3	6	6	9	1	2	3	3	1	1	2	2	3	2	9	8	7	5	8	4
24	3	3	4	3	7	0	9	2	5	3	1	6	3	9	3	5	16	10	8	M	6	5	7	9	6
25	3	7	8	1	2	12	10	2	4	8	4	3	5	11	7	5	8	11	9	13	11	9	8	16	7
26	5	16	19	9	15	11	14	11	8	8	5	1	5	4	4	4	5	6	10	7	3	3	7	14	8
27	15	9	13	7	7	11	12	11	7	7	10	7	4	4	4	8	11	15	6	9	10	14	9	10	9
28	5	13	12	16	13	16	15	11	8	12	6	7	5	1	5	7	8	8	6	5	9	10	14	18	10
29	21	22	22	13	10	3	1	0	1	7	3	3	1	5	4	9	6	3	9	10	12	8	20	18	9
30	8	8	7	12	4	4	4	6	6	5	7	3	3	8	9	5	2	8	8	7	6	9	7	6	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE LIMIT LEVEL				
6	5	7	5	15	19	26	31	0	-	46	0	-	24	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	4	4	4	2	
3	3	3	3	3	3	3	3	3	3	3	4	3	4	4	4	4	4	4	3	4	3	4	4	3	3	
4	3	3	4	4	4	4	4	4	4	4	4	4	3	4	4	3	4	4	4	4	4	3	4	4	4	
5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	2	4	
6	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5	5	4	4	3	3	3	3	2	3	4	
7	3	3	3	3	3	3	3	3	3	3	4	5	5	5	4	4	4	4	4	3	4	4	4	2	4	
8	3	3	3	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	
9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	3	3	3	3	3	3	2	3	
10	3	3	3	3	3	3	3	3	4	4	4	5	5	4	5	5	5	4	4	4	4	3	3	4	4	
11	4	4	4	4	4	4	4	4	5	12	9	8	10	9	9	6	5	4	4	4	4	3	3	2	5	
12	3	4	3	3	3	4	3	3	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
13	4	3	4	3	3	4	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	3	3	3	3	
14	3	4	4	3	3	4	3	3	3	3	3	4	4	4	4	4	3	4	4	4	4	4	4	4	4	
15	4	4	4	4	4	3	4	4	4	4	4	4	3	4	4	4	5	4	3	4	4	4	4	3	4	
16	4	3	4	4	4	3	3	4	3	3	4	3	3	4	4	3	4	4	3	4	4	4	4	4	4	
17	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	4
18	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4
20	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
21	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4
22	4	4	4	4	4	4	4	4	4	5	5	5	4	4	4	5	4	4	4	4	4	4	4	4	4	4
23	4	4	5	4	4	4	4	4	5	5	5	4	4	4	4	4	5	5	5	4	5	4	4	3	4	
24	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4	4	4	4	4	4	4	4	
25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4
26	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	M	M	0	1	1	1	1	1	1	1	3
28	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	2	2	1	1	1	1	1	0	1	
29	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	3	3	1	2	1	2	2	3	1	2	
30	1	1	2	2	2	2	2	2	2	3	3	3	4	3	3	3	3	3	2	3	4	3	2	1	2	

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
3	4	3	4	4	5	5	5	0	-	12	0	-	5	1	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : VICTORIA ROAD SUBSTATION
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	11	11	10	9	10	15	20	14	15	12	12	13	15	14	16	14	14	15	19	15	23	16	12	14	14
2	11	9	11	9	9	13	14	16	15	18	14	12	14	12	16	14	15	22	20	26	23	20	18	18	15
3	12	14	14	12	11	11	14	18	20	15	18	13	12	13	13	19	20	19	22	16	12	17	13	19	15
4	12	10	10	11	16	20	21	23	17	14	11	14	10	11	11	10	11	20	19	17	17	16	16	22	15
5	21	20	17	21	17	14	19	23	24	21	20	18	15	16	17	18	15	14	17	18	17	14	14	18	18
6	12	11	10	9	10	13	15	19	17	17	14	17	16	15	16	17	14	15	15	15	15	13	12	15	14
7	10	10	8	9	9	10	12	13	14	14	18	16	18	16	12	11	13	14	16	16	16	15	14	15	13
8	11	10	8	8	7	7	9	10	11	13	14	14	10	10	12	12	14	13	14	12	11	10	10	12	11
9	9	8	7	8	8	8	9	11	12	12	12	12	12	13	12	12	13	13	14	13	12	11	11	14	11
10	10	8	7	7	9	9	11	13	12	14	14	15	14	11	14	15	15	16	16	16	13	15	16	16	13
11	13	13	16	12	13	15	13	13	16	28	23	22	24	24	25	14	16	16	15	13	12	11	10	14	16
12	9	8	8	9	7	9	11	10	11	10	10	9	10	9	10	12	11	12	10	9	9	9	9	17	10
13	11	10	14	11	8	7	10	11	13	13	16	12	11	14	19	20	21	25	21	19	20	19	18	20	15
14	19	M	12	11	13	19	20	17	15	11	12	18	20	19	20	18	19	25	23	21	21	19	18	20	18
15	16	12	17	15	12	13	16	19	16	16	18	14	16	18	24	25	27	21	19	19	17	13	15	16	17
16	15	9	13	11	23	22	33	30	24	15	21	22	17	19	15	21	16	17	17	17	15	14	14	15	18
17	15	14	9	8	9	12	14	16	19	20	22	23	22	23	24	23	23	23	20	21	23	14	15	22	18
18	17	14	15	14	12	11	12	15	18	14	18	12	10	13	15	13	13	15	17	13	10	10	11	16	14
19	11	10	13	9	9	11	17	18	17	18	19	21	19	19	18	18	14	15	12	14	15	18	17	16	15
20	13	14	13	10	9	11	15	16	16	17	14	14	23	16	14	17	18	16	16	18	15	14	14	16	15
21	14	10	9	9	9	11	13	18	18	17	14	15	14	16	16	15	19	17	15	13	13	16	16	19	14
22	12	12	11	14	13	11	14	21	20	20	18	16	14	10	12	13	12	17	16	21	19	14	14	16	15
23	11	12	17	15	14	13	15	17	16	16	15	14	13	14	14	14	18	18	19	19	25	17	18	19	16
24	18	17	12	12	11	11	15	14	17	14	13	13	14	13	11	18	19	14	17	14	16	16	18	19	15
25	15	15	14	10	10	13	13	14	12	14	15	17	12	10	12	11	12	13	18	20	17	15	18	19	14
26	12	12	14	15	11	11	14	15	18	17	13	10	11	14	11	13	18	13	14	15	11	13	13	18	14
27	16	11	12	15	11	11	13	14	14	16	20	16	12	14	11	M	M	7	2	0	1	2	1	6	10
28	2	M	0	1	1	1	1	3	2	0	0	1	1	0	1	0	1	1	4	0	2	0	1	5	1
29	3	3	1	0	0	0	2	1	0	3	1	1	3	2	4	4	3	0	3	5	2	4	10	4	2
30	1	1	1	1	0	1	2	4	3	6	4	1	4	3	4	2	2	6	5	10	11	12	10	9	4

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----										RANGE-----		STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
12	14	13	14	20	22	24	25	0	-	33	1	-	18	2	99	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : POK FU LAM
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	4	3	1	2	5	3	2	5	4	3	4	2	3	5	3	5	5	3	1	2	5	4	3	3
2	4	2	5	2	2	4	2	4	4	5	3	3	2	3	4	2	2	2	1	3	3	3	2	3	3
3	2	2	2	3	1	1	4	7	6	5	8	4	5	5	7	4	3	1	1	2	1	3	3	4	4
4	4	4	2	2	4	6	6	7	6	4	3	7	3	2	5	3	2	3	3	2	5	3	4	4	4
5	7	11	8	7	6	3	4	7	5	5	5	8	4	3	4	6	1	2	5	3	5	2	1	4	5
6	3	5	4	2	2	9	6	8	7	11	2	7	13	7	6	M	1	3	3	1	1	1	2	1	5
7	0	1	0	0	1	1	0	0	3	4	5	8	3	4	3	5	1	3	6	4	8	7	7	4	3
8	3	2	1	1	1	1	1	1	2	2	3	4	0	2	2	2	2	2	1	1	1	1	2	1	2
9	0	1	1	2	1	1	0	1	1	0	1	0	1	1	1	1	1	0	1	1	3	3	4	1	1
10	1	1	0	0	2	3	3	5	2	5	3	3	4	0	5	9	6	9	5	5	2	2	5	4	4
11	4	6	10	5	4	5	7	9	11	36	36	17	23	12	21	9	17	4	1	1	2	2	2	2	10
12	0	0	1	1	0	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	5	4	4	3	1	1
14	1	1	1	1	1	3	1	1	0	0	1	4	7	11	8	5	7	7	4	3	3	4	4	8	4
15	7	3	6	7	4	6	5	5	4	4	4	2	3	3	5	3	3	1	4	6	4	2	6	6	4
16	3	0	2	1	1	1	3	2	2	2	3	3	2	5	4	6	4	3	1	4	3	2	3	2	3
17	0	0	0	0	0	0	0	4	8	5	8	6	4	1	1	1	0	1	0	0	2	0	0	1	2
18	2	5	5	3	5	6	3	3	3	3	2	2	1	2	3	2	1	3	5	3	1	1	2	2	3
19	1	1	1	0	0	0	2	3	1	0	0	2	3	4	4	4	M	0	0	0	0	0	0	1	1
20	0	1	0	0	0	1	4	1	1	2	1	5	6	1	0	1	7	5	14	5	5	2	3	3	3
21	4	1	0	1	2	2	1	3	4	3	1	3	1	2	3	5	2	6	3	2	2	3	2	2	2
22	0	1	1	2	1	1	0	1	3	5	7	3	1	1	3	2	0	2	1	5	5	2	2	4	2
23	4	5	16	9	6	6	7	6	13	8	8	6	2	3	3	3	9	6	8	7	13	5	8	5	7
24	6	9	3	3	3	2	5	2	3	M	5	3	3	3	1	4	6	2	5	5	4	4	3	3	4
25	2	3	3	2	1	3	5	2	3	9	6	6	3	1	3	3	2	1	1	6	3	1	2	5	3
26	3	5	9	6	4	5	4	3	9	5	5	4	3	2	3	7	4	2	9	5	2	3	3	8	5
27	6	3	4	4	1	2	3	2	4	3	4	7	3	3	3	4	4	9	6	4	2	2	1	6	4
28	4	5	2	3	5	4	5	6	7	8	6	6	4	2	4	5	6	4	2	2	2	2	2	1	4
29	1	2	2	7	3	4	2	1	2	5	6	6	5	0	6	4	9	3	4	2	2	4	11	2	4
30	3	6	9	10	5	7	4	9	13	29	10	8	10	10	9	5	7	6	12	12	10	12	13	9	10

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
3	3	4	3	7	9	12	16	0	-	36	0	-	10	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : POK FU LAM
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	7	9	10	7	7	12	7	14	13	14	13	15	15	17	15	12	15	15	10	6	8	14	14	9	12
2	13	4	12	7	5	12	9	17	15	23	10	8	11	13	17	15	11	9	6	10	10	13	8	13	11
3	9	7	10	15	6	10	15	16	20	19	19	10	7	7	8	6	7	7	8	8	6	8	8	22	11
4	11	M	6	6	10	13	15	17	14	14	11	17	7	6	6	8	6	10	12	11	14	13	13	26	12
5	21	22	17	16	16	8	14	24	21	19	M	M	18	15	14	16	12	13	20	17	17	10	9	17	16
6	7	11	8	4	5	21	13	23	17	16	8	11	13	9	11	M	21	11	8	10	5	4	6	10	11
7	2	3	0	1	1	2	2	7	7	6	9	9	6	6	7	M	10	13	18	18	19	16	18	9	8
8	9	6	3	3	2	4	5	8	10	11	12	9	7	6	8	9	9	10	11	10	8	6	8	12	8
9	11	10	10	12	12	12	11	16	15	16	15	16	15	15	16	17	16	17	19	17	18	17	17	13	15
10	13	13	11	11	13	17	17	20	16	19	17	15	16	14	16	20	21	23	23	26	18	17	24	19	17
11	17	19	28	19	20	20	21	21	23	30	27	24	25	21	26	18	27	21	19	17	19	16	15	18	21
12	15	14	15	13	12	14	15	18	19	18	16	17	16	16	17	17	19	27	28	23	17	17	15	23	18
13	21	20	31	22	15	11	12	17	20	23	25	23	29	22	28	25	27	34	41	30	25	21	32	19	24
14	20	16	13	13	16	24	23	21	19	22	22	26	29	28	28	24	26	33	27	28	29	26	27	31	24
15	27	17	26	30	19	26	24	38	25	28	17	24	24	21	17	15	17	14	21	26	24	20	25	19	23
16	17	17	21	22	15	14	16	19	20	22	28	25	21	29	24	22	24	21	28	32	23	17	20	18	21
17	32	33	14	15	18	18	29	42	45	42	44	45	46	46	52	54	53	50	49	56	64	24	36	38	39
18	30	M	36	23	24	30	21	24	23	20	20	20	17	20	25	22	22	23	37	24	22	19	20	28	24
19	16	19	43	24	34	25	27	32	36	39	29	32	25	20	21	27	M	46	32	42	24	38	30	8	29
20	9	12	22	6	4	17	23	20	27	26	21	38	35	24	21	16	29	29	44	23	39	25	24	11	23
21	24	10	6	7	7	20	31	22	28	22	21	24	21	27	24	23	11	23	21	15	11	13	11	11	18
22	8	9	7	9	7	6	6	13	19	17	14	9	6	7	9	10	6	14	17	28	26	13	12	12	12
23	12	13	26	16	13	13	19	20	15	14	15	10	8	10	12	7	15	15	21	23	37	17	28	16	16
24	22	21	9	9	6	9	18	11	14	M	11	7	11	13	4	14	17	10	21	18	19	17	12	12	13
25	10	13	12	5	5	14	18	18	10	17	14	11	7	4	9	10	8	5	7	18	17	9	11	14	11
26	9	13	20	19	13	9	13	12	18	15	9	7	6	6	7	11	12	8	25	21	11	13	12	24	13
27	22	11	13	14	8	11	13	10	13	17	8	10	8	7	8	11	15	21	16	13	16	16	12	20	13
28	12	11	4	6	12	10	13	15	14	11	9	12	9	7	10	8	11	10	14	13	16	12	17	11	11
29	15	16	11	19	10	12	12	11	12	15	19	12	14	6	13	11	16	11	19	17	17	18	27	8	14
30	11	12	15	17	12	13	12	21	23	24	11	11	15	13	13	7	11	13	18	27	27	30	30	23	17

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
15	15	17	15	28	32	43	46	0	-	64	8	-	39	2	99	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : AP LEI CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	5	10	7	4	4	13	7	8	12	7	4	5	7	10	10	7	6	12	6	4	3	4	9	9	7
2	10	7	14	8	8	10	11	11	10	13	6	7	7	7	9	6	8	8	7	10	11	9	7	9	9
3	5	4	6	7	4	4	6	13	12	9	10	6	7	7	7	7	4	6	9	4	1	7	7	6	7
4	3	5	2	4	8	14	14	12	10	5	2	5	5	3	3	5	5	6	6	4	8	5	8	12	6
5	18	25	26	32	19	7	11	27	9	10	9	M	7	8	11	19	4	3	6	3	5	4	2	6	12
6	3	3	3	3	4	5	5	12	10	17	3	5	12	13	11	10	3	6	4	2	2	2	3	6	6
7	2	3	1	3	4	2	1	2	6	5	3	9	14	19	10	7	M	8	9	6	12	14	11	3	7
8	3	1	0	0	0	1	0	0	2	1	3	2	1	0	1	M	4	3	1	1	1	0	4	3	1
9	3	3	2	5	3	3	1	3	2	2	2	4	2	1	2	2	3	1	4	2	4	5	5	3	3
10	2	2	1	1	5	6	4	7	8	13	6	4	4	2	6	8	5	8	11	7	4	4	13	7	6
11	7	7	12	5	8	9	11	19	16	41	61	34	26	37	22	7	8	4	1	3	4	4	4	3	15
12	2	1	2	2	1	3	3	3	1	1	1	1	1	1	0	0	1	1	2	1	1	2	2	1	1
13	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	3	16	17	11	18	19	9	11	5
14	10	6	7	3	14	16	11	4	3	1	3	34	31	45	34	30	19	13	13	14	14	16	16	27	16
15	16	9	17	13	7	10	11	14	6	6	9	10	7	5	7	8	11	3	13	13	8	4	8	10	9
16	10	2	9	10	9	6	11	8	8	4	8	10	6	8	9	12	9	8	3	8	7	13	8	6	8
17	3	3	1	4	7	5	3	3	19	22	38	20	7	6	14	9	14	5	3	8	6	3	5	41	10
18	25	25	31	14	25	27	10	12	9	6	9	6	6	9	9	4	4	8	31	22	2	8	8	10	13
19	3	3	3	3	4	12	11	16	10	3	7	8	14	6	9	13	3	4	2	2	8	5	18	8	7
20	14	8	12	5	15	16	30	5	6	10	12	5	13	5	4	8	23	12	12	17	13	8	8	21	12
21	20	9	3	6	6	11	14	12	14	5	7	6	4	2	6	14	5	10	13	5	5	5	8	9	8
22	7	11	8	10	7	8	3	13	19	19	19	14	6	4	6	3	9	9	5	17	13	6	5	6	9
23	6	22	55	22	13	11	20	17	17	20	8	13	6	6	6	12	17	17	11	10	23	10	21	6	15
24	15	8	11	11	3	5	10	4	7	13	8	8	5	16	8	15	33	10	11	8	12	9	9	14	11
25	10	10	12	3	2	10	7	9	7	27	14	9	8	3	5	5	10	3	2	21	6	6	11	22	9
26	7	9	20	12	10	6	9	4	12	20	10	4	6	4	3	7	12	3	14	12	5	3	3	13	9
27	13	4	15	11	6	4	10	8	8	7	9	19	5	7	3	7	8	9	5	5	2	7	5	10	8
28	8	14	5	11	12	10	10	16	26	23	13	9	11	3	5	6	9	14	8	3	6	4	5	12	10
29	17	15	9	24	19	9	5	8	9	22	6	19	18	3	13	15	18	5	10	8	15	19	34	13	14
30	10	18	18	15	13	21	22	38	20	21	17	15	15	12	16	5	9	8	11	21	15	13	22	8	16

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES		
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
7	7	9	7	18	22	31	37	0	-	61	1	-	16	2	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : AP LEI CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	4	1	0	1	5	1	4	4	5	1	3	6	10	7	1	2	5	1	1	0	1	5	3	3
2	3	2	8	5	3	7	8	18	11	18	7	10	7	9	10	4	7	7	4	10	9	9	4	10	8
3	3	7	9	9	4	6	11	22	24	22	19	13	14	13	11	11	8	12	16	5	1	9	7	6	11
4	4	8	1	7	14	22	18	20	16	7	2	9	4	3	2	9	7	8	12	4	12	14	9	15	9
5	37	34	33	38	16	6	14	26	14	11	14	M	9	11	13	19	6	7	8	5	8	4	3	7	15
6	6	M	4	4	7	16	13	13	13	18	5	4	11	11	11	10	2	5	5	4	4	4	7	14	8
7	4	8	2	3	5	7	7	3	4	3	2	7	12	19	9	7	M	0	0	0	0	0	0	0	4
8	0	0	0	0	0	0	0	0	0	0	0	M	M	M	M	M	8	11	13	9	7	14	10	4	4
9	9	8	6	10	10	10	7	8	8	8	10	M	7	8	8	7	10	10	11	12	15	14	13	4	9
10	4	5	2	2	6	8	7	9	8	9	7	7	6	2	5	9	7	10	18	13	10	10	19	8	8
11	8	11	15	8	14	15	16	12	10	25	30	23	18	28	19	5	6	8	16	13	11	8	9	8	14
12	8	5	7	9	4	6	8	6	6	5	4	3	4	4	4	6	9	12	11	11	7	9	9	17	7
13	15	19	26	22	15	10	9	10	8	17	14	14	12	18	26	10	14	32	30	24	36	30	18	19	19
14	16	9	8	6	15	17	16	14	13	11	20	30	28	37	35	33	28	23	15	21	21	21	18	26	20
15	18	12	18	17	8	13	15	20	11	18	17	25	20	17	12	14	17	14	15	17	12	5	9	5	15
16	11	1	10	5	6	6	12	12	12	11	14	22	13	18	15	17	16	14	12	16	15	19	15	9	13
17	18	19	2	17	22	14	20	36	38	45	51	53	43	49	55	52	45	43	30	56	59	23	26	54	36
18	39	37	43	22	30	32	18	20	11	5	13	12	12	14	20	7	14	14	31	32	2	16	13	25	20
19	16	14	26	9	3	18	16	21	34	36	36	21	13	7	15	24	11	22	14	26	41	34	39	42	22
20	33	M	30	30	31	18	29	9	11	15	23	7	14	15	10	15	22	15	17	25	23	8	8	20	19
21	16	13	2	2	1	9	12	12	14	10	8	6	7	4	13	19	12	11	12	3	1	4	11	5	9
22	5	8	1	7	1	3	0	7	6	6	6	5	2	0	1	0	5	12	6	22	16	3	2	3	5
23	2	14	17	12	7	4	11	8	4	7	2	5	1	3	4	5	6	9	8	12	22	7	17	3	8
24	13	6	6	11	1	2	9	1	1	6	1	7	3	10	9	11	23	7	12	8	7	11	6	4	7
25	3	4	6	0	0	6	2	7	8	21	11	9	7	0	2	2	6	1	3	19	6	2	5	12	6
26	2	3	13	6	5	2	5	3	8	8	8	3	6	2	3	8	12	7	12	15	9	2	1	13	7
27	13	1	9	6	3	3	5	4	6	4	8	12	5	4	4	9	13	13	9	7	3	7	7	7	7
28	3	8	1	7	8	7	5	9	14	10	13	8	11	6	8	8	13	15	12	7	8	1	6	14	8
29	18	17	11	18	19	8	3	4	3	10	5	10	12	6	20	16	19	10	13	10	18	23	24	9	13
30	7	10	12	13	11	16	21	14	10	11	9	7	9	5	10	2	7	3	10	18	16	11	20	9	11

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----							-----RANGE-----					STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR		24-HR			DEVIATION	VALID DATA	ABOVE LIMIT LEVEL	
9	9	12	9	23	32	41	49	0	-	59	3	-	36	2	99	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : CHEUNG CHAU
POLLUTANT : SULPHUR DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	2	2	0	1	1	2	1	2	2	2	3	2	0	1	0	1	0	0	0	1	2	1	0	1	1
2	0	1	2	2	1	1	2	1	0	1	0	1	3	2	2	1	1	0	0	0	0	0	0	6	1
3	2	1	0	0	0	0	1	0	0	1	1	0	2	3	2	0	0	0	0	0	0	0	0	1	1
4	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7	0	0	0	0	0	0	5	5	2	0	2	1	0	0	0	1	0	1	0	1	1	0	0	2	1
8	1	1	0	0	1	0	1	2	2	1	5	5	5	6	2	3	1	0	1	1	1	0	0	1	2
9	0	1	1	0	0	0	0	0	2	2	3	M	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	1	1	7	5	4	0	0	0	0	0	0	0	0	0	0	0	1
11	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

MONTHLY STATISTICS:

ARITH ----- PERCENTILES ----- RANGE -----											STN GEOM	PERCENT	NO. OF TIMES			
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT LEVEL			
2	0	0	0	1	2	3	5	0	-	7	0	-	2	2	100	0

- NOTES: 1. FLAGS FOR INVALID DATA :
- D: DYNAMIC CALIBRATION
 - T: TELEMETRY/DATALOGGR FAULT
 - M: MAINTENANCE OR ANALYZER FAULT
 - P: POWER FAILURE

THE HONGKONG ELECTRIC COMPANY, LTD.
AIR QUALITY DATA MONTHLY TIME SERIES REPORT
MONTH: JUNE

STATION : CHEUNG CHAU
POLLUTANT : NITROGEN DIOXIDE

YEAR : 2017
UNIT : MICROGRAMS/CUBIC METER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0
2	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
3	2	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1
4	1	0	0	0	0	1	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0
5	2	3	2	2	4	3	3	2	3	2	2	4	1	2	2	2	2	2	3	3	8	6	2	2	3
6	4	3	1	2	2	7	3	1	0	4	1	1	1	1	1	1	1	3	1	3	3	1	1	4	2
7	1	1	1	1	1	5	41	24	4	0	1	1	1	1	1	1	1	1	1	2	2	1	2	4	4
8	2	1	1	1	6	4	3	4	1	1	4	3	5	4	1	1	1	1	2	5	4	1	1	3	3
9	1	4	5	3	2	4	1	3	3	3	4	M	2	1	1	1	2	3	2	4	3	5	3	4	3
10	3	1	2	2	2	1	1	5	8	5	6	6	3	1	1	1	1	1	1	2	2	3	1	2	3
11	1	1	1	3	2	5	7	6	4	2	1	1	1	1	1	1	3	2	1	2	6	4	8	10	3
12	7	8	7	17	17	13	13	14	11	10	10	15	9	6	7	15	19	18	14	12	11	12	16	6	12
13	15	21	18	15	4	2	2	2	4	2	2	6	18	26	24	20	15	6	6	6	6	8	3	4	10
14	3	M	5	3	3	4	4	5	4	14	19	21	22	44	36	10	12	8	13	12	14	13	13	8	13
15	2	7	5	4	3	1	1	1	2	2	6	5	3	3	1	1	0	1	1	1	3	1	1	2	2
16	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	3	3	4	5	3	3	3	6	3	3
17	5	16	20	7	5	23	31	37	39	42	38	43	44	46	46	47	46	48	44	40	20	30	43	33	
18	29	24	19	11	11	17	22	20	14	10	6	9	9	10	8	7	9	16	15	10	6	6	7	17	13
19	16	13	18	13	19	19	17	30	25	13	7	3	0	0	3	1	3	5	6	17	39	27	29	45	15
20	33	35	37	31	30	33	29	5	2	1	6	10	5	1	0	0	0	1	2	2	14	39	41	37	16
21	25	2	0	1	4	1	6	3	10	1	0	0	1	1	0	1	0	0	5	1	1	0	1	3	3
22	1	1	1	1	1	1	2	2	2	1	1	1	1	2	1	1	1	1	1	1	2	1	1	2	1
23	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	3	3	1	2	3	1
24	2	2	2	2	2	3	3	3	2	2	2	2	2	3	11	9	4	3	3	4	8	6	2	1	3
25	1	1	1	1	2	8	9	1	7	4	1	1	1	1	2	2	2	1	1	1	1	1	0	2	
26	1	1	8	0	1	2	1	0	1	1	0	2	0	0	1	1	3	3	2	10	8	10	2	8	3
27	3	2	2	8	8	2	2	4	8	8	1	1	1	7	1	3	3	3	1	1	3	2	1	7	3
28	3	M	4	2	6	5	5	10	16	15	6	3	2	2	4	2	2	2	4	3	5	3	8	12	5
29	14	10	5	6	6	15	23	21	25	13	2	1	2	1	1	1	1	1	1	1	2	2	2	10	7
30	9	5	10	7	5	8	13	19	17	8	6	12	4	2	2	2	2	2	2	2	2	2	2	2	6

MONTHLY STATISTICS:

GEOM	ARITH-----PERCENTILES-----								-----RANGE-----				STN GEOM	PERCENT	NO. OF TIMES	
MEAN	MEDIAN	MEAN	50	90	95	98	99	1-HR	24-HR	DEVIATION	VALID DATA	ABOVE	LIMIT	LEVEL		
3	2	6	2	16	26	40	44	0	-	48	0	-	33	3	100	0

NOTES: 1. FLAGS FOR INVALID DATA :
D: DYNAMIC CALIBRATION
T: TELEMETRY/DATALOGGR FAULT
M: MAINTENANCE OR ANALYZER FAULT
P: POWER FAILURE

Appendix C Summary Results on Water Quality Monitoring

LAMMA POWER STATION FGD WASTEWATER TREATMENT PLANT EFFLUENT DISCHARGE TO ASH LAGOON SUSPENDED SOLIDS AND PH

Period : April – June 2017

Week Ending	No. of Samples	Suspended Solids, mg/L			pH		
		Maximum	Minimum	Average	Maximum	Minimum	Average
01/04/17	5*	20	11	16	8.2	8.0	8.1
08/04/17	5*	22	10	14	8.3	8.0	8.2
15/04/17	4*	20	12	16	8.2	8.1	8.2
22/04/17	7	22	13	17	8.3	8.0	8.1
29/04/17	6*	22	10	15	8.3	8.0	8.1
06/05/17	4*	18	11	13	8.2	8.0	8.2
13/05/17	4*	18	13	15	8.2	8.1	8.2
20/05/17	5*	21	13	16	8.1	7.8	8.0
27/05/17	4*	22	15	17	8.2	7.9	8.0
03/06/17	6*	22	12	17	8.2	8.1	8.2
10/06/17	7	21	12	16	8.2	8.0	8.1
17/06/17	4*	18	14	17	8.0	7.9	8.0
24/06/17	6*	22	14	17	8.3	7.8	8.0

Remark :

* - No sampling for the remaining day(s) of the week / no sampling due to no discharge

LAMMA POWER STATION
FGD WASTEWATER TREATMENT PLANT
EFFLUENT DISCHARGE TO ASH LAGOON
TRACE METAL, TOTAL PHOSPHORUS
AND TOTAL NITROGEN ANALYSIS

Period : April – June 2017

Sampling date		5/4/2017	11/5/2017	7/6/2017
Barium,	ug/L	<150	<150	<150
Mercury,	ug/L	<0.5	<0.5	<0.5
Cadmium,	ug/L	4	2	<1
Iron,	ug/L	<400	<400	<400
Total Phosphorous,	mg/L	<0.8	<0.8	<0.8
Total Nitrogen,	mg/L	178	154	149
Cyanide,	mg/L	0.01	0.01	0.01

Remark:

According to the WPCO Ash Lagoon Discharge Licence, contents at exact levels of trace metals below 1/10 th of the WPCO Licence permitted limits will not be reported. When the concentration of a metal exceeds 1/10 th of the limit, the exact value of the metal concentration will be reported.

Appendix D Summary of EMIS

EM&A Log Ref.	Mitigation Measures	Implementation Status
	GENERAL	
A1	No other process, except the Wet Limestone-Gypsum process used in the FGD plants of the coal-fired Units L6, L7 and L8 within the Lamma Power Station, shall be used in the FGD plants for the projects unless otherwise agreed by EPD.	Complied
	WATER QUALITY	
B1	All wastewater arising from the operation of the projects shall be collected and directed to the existing wastewater treatment plant within the Lamma Power Station for treatment.	Complied
B2	The operational plant effluent from the FGD plants should be reused as much as possible in order to minimise discharge to the WWTP.	Complied
B3	Maintenance of the WWTP should be performed regularly to ensure the effluent from the WWTP would not exceed the current requirements stipulated in the WPCO licence for Ash Lagoon.	Complied
	WASTE	
C1	No gypsum or sludge arising from the operation of the projects shall be disposed of anywhere. All gypsum and sludge shall be collected and reused.	Complied
	NOISE	
D1	Equipment including the Absorber Recirculation Pump, Oxidation Air Blower, Booster Fan and Booster Fan Motor of the FGD plants shall be acoustically insulated and the Gas-Gas Heater (untreated side) of the FGD plants shall be provided with reinforced lagging to reduce the noise impact.	Complied